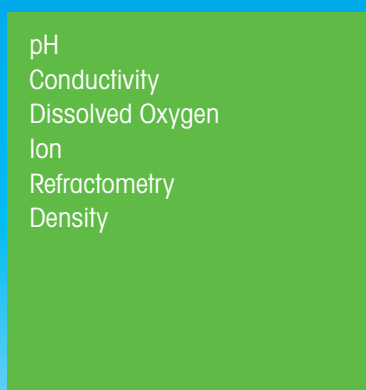


English



## METTLER TOLEDO OnLine Analytical Instruments

METTLER TOLEDO



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# FiveEasy™ and FiveEasy Plus™

All FiveEasy™ and FiveEasy Plus™ meters come with integrated electrode arm, user manual, quick guide, power adapter, declaration of conformity and test certificate.

**Measurement made easy**

A large, well–structured display, intuitive button arrangement and simple menu ensure measurements can be performed in just a few clicks.

**Compact design saves space**

Through its compact design and the ability to remove the sensor holder and store it on the side of the meter, little bench space is needed.

**Simple and secure data transfer**

The FiveEasy Plus™ series meters allow data to be exported either directly to a printer or a PC for further processing using RS232 or USB ports.



## FiveEasy™

| Item No  | Description                 | LE sensor included in the kit | Calibration standard included                       |
|----------|-----------------------------|-------------------------------|-----------------------------------------------------|
| 30266658 | pH bench F20 meter          | –                             | 1 × 4,01, 7,00 and 9,21 buffer sachets              |
| 30266626 | pH bench F20 Standard kit   | LE438                         | 1 × 4,01, 7,00 and 9,21 buffer sachets              |
| 30266942 | Cond bench F30 meter        | –                             | 1 × 1413 µS/cm and 1 × 12,88 mS/cm standard sachets |
| 30266943 | Cond bench F30 Standard kit | LE703                         | 1 × 1413 µS/cm and 1 × 12,88 mS/cm standard sachets |

## FiveEasy Plus™

| Item No  | Description                  | LE sensor included in the kit | Calibration standard included                       |
|----------|------------------------------|-------------------------------|-----------------------------------------------------|
| 30266627 | pH bench FP20 meter          | –                             | 1 × 4,01, 7,00 and 9,21 buffer sachets              |
| 30266628 | pH bench FP20 Standard kit   | LE438                         | 1 × 4,01, 7,00 and 9,21 buffer sachets              |
| 30266629 | pH bench FP20 Bio kit        | LE410                         | 1 × 4,01, 7,00 and 9,21 buffer sachets              |
| 30266940 | pH bench FP20 Micro kit      | LE422                         | 1 × 4,01, 7,00 and 9,21 buffer sachets              |
| 30266941 | pH bench FP20 TRIS kit       | LE420                         | 1 × 4,01, 7,00 and 9,21 buffer sachets              |
| 30266944 | Cond bench FP30 meter        | –                             | 1 × 1413 µS/cm and 1 × 12,88 mS/cm standard sachets |
| 30266945 | Cond bench FP30 Standard kit | LE703                         | 1 × 1413 µS/cm and 1 × 12,88 mS/cm standard sachet  |

## Accessories

| Item No  | Description                                          |
|----------|------------------------------------------------------|
| 30239146 | FiveEasy Plus™/FiveEasy™ cover for electrode arm     |
| 30239139 | FiveEasy Plus™/FiveEasy™ electrode arm (complete)    |
| 30239140 | FiveEasy Plus™/FiveEasy™ electrode arm extension bar |
| 30323214 | EasyDirect™ pH license key                           |
| 30403890 | DIN Adapter LE                                       |
| 30499900 | DIN Adapter T-kit LE                                 |

# SevenDirect™

All SevenDirect™ meters/kits come with EasyPlace™ electrode arm, protective cover, user manual, quick guide, power adapter, declaration of conformity and test certificate.

**Mastered in no time**

Large colour touch screen provides direct measurement and easy data entry. Instructions guide users through the sensor calibration process.

**Tracks your records**

The instrument stores data, such as timestamp, sample and sensor ID with every measurement and prints or exports records automatically.

**Tough enough**

Closed connector compartment and replaceable cover keep the instrument safe from dust and spills, even with sensors attached (IP54 in-use).



## SevenDirect™

| Item No  | Description                               | InLab® sensor included in the kit | Calibration standard included                             | Accessories included                |
|----------|-------------------------------------------|-----------------------------------|-----------------------------------------------------------|-------------------------------------|
| 30671550 | pH bench SD20 meter                       | –                                 | –                                                         | –                                   |
| 30671554 | pH bench SD20 kit                         | InLab® Expert Pro-ISM             | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21) | –                                   |
| 30671555 | pH bench SD20 Stirrer kit                 | InLab® Expert Pro-ISM             | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21) | EasyMix™ magnetic stirrer           |
| 30671556 | pH bench SD20 HA kit                      | InLab® Routine Pro-ISM            | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21) | InLab® cable MultiPin-BNC/RCA 1,2 m |
| 30671557 | pH bench SD20 Organic kit                 | InLab® Science Pro-ISM            | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21) | InLab® cable MultiPin-BNC/RCA 1,2 m |
| 30671558 | pH bench SD20 Pure H <sub>2</sub> O kit   | InLab® Pure Pro-ISM               | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21) | InLab® cable MultiPin-BNC/RCA 1,2 m |
| 30671559 | pH bench SD20 Solids kit                  | InLab® Solids Pro-ISM             | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21) | InLab® cable MultiPin-BNC/RCA 1,2 m |
| 30671560 | pH bench SD20 Viscous kit                 | InLab® Viscous Pro-ISM            | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21) | InLab® cable MultiPin-BNC/RCA 1,2 m |
| 30671561 | pH bench SD20 LowVol kit                  | InLab® Micro Pro-ISM              | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21) | InLab® cable MultiPin-BNC/RCA 1,2 m |
| 30671551 | Cond bench SD30 meter                     | –                                 | –                                                         | –                                   |
| 30671562 | Cond bench SD30 kit                       | InLab® 731-ISM                    | 1 × 1413 µS/cm and 1 × 12,88 mS/cm standard sachets       | –                                   |
| 30671563 | Cond bench SD30 Pure H <sub>2</sub> O kit | InLab® 741-ISM                    | –                                                         | –                                   |
| 30671552 | pH/Ion bench SD50 meter                   | –                                 | –                                                         | –                                   |
| 30671544 | pH/Ion bench SD50 kit                     | InLab® Expert Pro-ISM             | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21) | –                                   |
| 30671545 | pH/Ion bench SD50 F-Ion kit               | PerfectION™ F sensor              | –                                                         | –                                   |
| 30671546 | pH/Ion bench SD50 HA kit                  | InLab® Routine Pro-ISM            | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21) | InLab® cable MultiPin-BNC/RCA 1,2 m |

| Item No  | Description                              | InLab® sensor included in the kit       | Calibration standard included                                                                                           | Accessories included                |
|----------|------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 30671547 | pH/Ion bench SD50 Organic kit            | InLab® Science Pro-ISM                  | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21)                                                               | InLab® cable MultiPin-BNC/RCA 1,2 m |
| 30671548 | pH/Ion bench SD50 Pure H <sub>2</sub> O  | InLab® Pure Pro-ISM                     | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21)                                                               | InLab® cable MultiPin-BNC/RCA 1,2 m |
| 30671549 | pH/Ion bench SD50 LowVol kit             | InLab® Micro Pro-ISM                    | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21)                                                               | InLab® cable MultiPin-BNC/RCA 1,2 m |
| 30671553 | pH/Cond bench SD23 meter                 | –                                       | –                                                                                                                       | –                                   |
| 30671567 | pH/Cond bench SD23 kit                   | InLab® Expert Pro-ISM<br>InLab® 731-ISM | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21)<br>2 × 2 conductivity standards (1413 µS/ cm and 12,88 mS/cm) | –                                   |
| 30671568 | pH/Cond bench SD23 Pure H <sub>2</sub> O | InLab® 741-ISM<br>InLab® Pure Pro-ISM   | 3 × 3 calibration buffer sachets (pH 4,01, 7,00 and 9,21)                                                               | InLab® cable MultiPin-BNC/RCA 1,2 m |

Accessories

| Item No  | Description                                                          |
|----------|----------------------------------------------------------------------|
| 30671569 | EasyPlace™: electrode arm (included in standard delivery)            |
| 30671571 | Parking beaker for short term electrode storage                      |
| 30671572 | Parking beaker insert for use with storage solution                  |
| 30671573 | Holder to position buffer and standard sachets on the EasyPlace™     |
| 30671574 | Holder for a single sensor                                           |
| 30671575 | Holder for up to three sensors                                       |
| 30671576 | Longer holder for a single sensor, for use with large sample vessels |
| 30671577 | Standard vertical pole for the EasyPlace™                            |
| 30671578 | Vertical pole with for the EasyPlace™ with extended range            |
| 30671529 | Protective cover (included in standard delivery)                     |
| 30671580 | Power supply 18 W (included in standard delivery)                    |
| 30417466 | Corded USB barcode scanner                                           |
| 30323214 | Licence for EasyDirect™ pH software                                  |
| 30671570 | EasyMix™ magnetic stirrer                                            |
| 51191159 | Magnetic Stirrer Bar                                                 |
| 30718583 | Fluoride solution kit                                                |
| 21901297 | Barcode Reader Hand Scanner                                          |

SevenExcellence™

All SevenExcellence™ meters/kits come with with electrode arm, protective cover, user manual, get-started guide, power adapter, declaration of conformity and test certificate and EasyDirect™ pH software licence key.

Professional and flexible

In addition to pH and ORP, ISFET is also supported. Further flexibility thanks to the method concept and numerous measurement and calibration options.

Professional pH calibration

Extra security with calibrations owing to methods with strict user guidance and monitoring of offset and slope.

Efficient workflow support

The complete cycle from data entry via sample analysis to data archiving is efficient and intuitive.

SevenExcellence™

| Item No  | Description                   | InLab® sensor included in the kit      | Calibration standard included                           | Expansion unit included     | Accessories included                |
|----------|-------------------------------|----------------------------------------|---------------------------------------------------------|-----------------------------|-------------------------------------|
| 30046240 | pH bench S400 Basic meter     | –                                      | 2 × pH 4,01, 7,00, 9,21 and 10,01 buffer sachets        | pH/mV expansion unit        | –                                   |
| 30046241 | pH bench S400 kit             | InLab® Expert Pro-ISM (1,2 m cable)    | 2 × pH 4,01, 7,00, 9,21 and 10,01 buffer sachets        | pH/mV expansion unit        | –                                   |
| 30046242 | pH bench S400 Bio kit         | InLab® Routine Pro-ISM                 | 2 × pH 4,01, 7,00, 9,21 and 10,01 buffer sachets        | pH/mV expansion unit        | InLab® cable MultiPin-BNC/RCA 1,2 m |
| 30092982 | pH bench S400 Micro kit       | InLab® Ultra-Micro-ISM                 | 2 × pH 4,01, 7,00, 9,21 and 10,01 buffer sachets        | pH/mV expansion unit        | InLab® cable MultiPin-BNC/RCA 1,2 m |
| 30092983 | pH bench S400 uMix™ kit       | InLab® Expert Pro-ISM (1,2 m cable)    | 2 × pH 4,01, 7,00, 9,21 and 10,01 buffer sachets        | pH/mV expansion unit        | magnetic stirrer uMix™              |
| 30046248 | pH/Ion S500 Basic meter       | –                                      | 2 × pH 4,01, 7,00, 9,21 and 10,01 buffer sachets        | pH/Ion expansion unit       | –                                   |
| 30046249 | pH/Ion S500 kit               | InLab® Expert Pro-ISM (1,2 m cable)    | 2 × pH 4,01, 7,00, 9,21 and 10,01 buffer sachets        | pH/Ion expansion unit       | –                                   |
| 30046250 | pH/Ion S500 Bio kit           | InLab® Routine Pro-ISM                 | 2 × pH 4,01, 7,00, 9,21 and 10,01 buffer sachets        | pH/Ion expansion unit       | InLab® cable MultiPin-BNC/RCA 1,2 m |
| 30046251 | pH/Ion S500 F kit             | perfectionION™ comb F (1,2 m cable)    | 2 × pH 4,01, 7,00, 9,21 and 10,01 buffer sachets        | pH/Ion expansion unit       | –                                   |
| 30046244 | Cond bench S700 Basic meter   | –                                      | 2 × 2 conductivity sachets (1413 µS/cm and 12,88 mS/cm) | conductivity expansion unit | –                                   |
| 30046245 | Cond bench S700 kit           | InLab® 731-ISM (1,2 m cable)           | 2 × 2 conductivity sachets (1413 µS/cm and 12,88 mS/cm) | conductivity expansion unit | –                                   |
| 30046246 | Cond bench S700 Trace kit     | InLab® Trace Flow-cell<br>InLab® Trace | 2 × 2 conductivity sachets (1413 µS/cm and 12,88 mS/cm) | conductivity expansion unit | –                                   |
| 30092984 | DO/BOD bench S900 Basic meter | –                                      | –                                                       | DO/BOD expansion unit       | –                                   |
| 30092985 | DO bench S600 kit             | InLab® 605-ISM (1,8 m cable)           | zero oxygen tables (20 pcs.)                            |                             | Calibration device<br>InLab® 605    |



| Item No  | Description                         | InLab® sensor included in the kit                                                                  | Calibration standard included                                                                                                           | Expansion unit included                                                       | Accessories included                                                                          |
|----------|-------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 30092986 | DO bench S900 kit                   | InLab® OptiOx (1,8 m cable)                                                                        | zero oxygen tables (20 pcs.)                                                                                                            | DO/BOD expansion unit                                                         | InLab® OptiOx BOD adapter for uPlace™                                                         |
| 30092987 | DO/BOD bench S900 BOD kit           | –                                                                                                  | zero oxygen tables (20 pcs.)                                                                                                            | DO/BOD expansion unit                                                         | InLab® OptiOx BOD adapter for uPlace™; BOD adapter                                            |
| 30046252 | pH/Cond bench S470 Basic meter      | –                                                                                                  | 2×pH 4,01, 7,00, 9,21 and 10,01 buffer sachets<br>2×2 conductivity sachets (1413 µS/cm and 12,88 mS/cm)                                 | pH/mV expansion unit, conductivity expansion unit                             | –                                                                                             |
| 30046253 | pH/Cond bench S470 kit              | InLab® Expert Pro-ISM (1,2 m cable)<br>InLab® 731-ISM (1,2 m cable)                                | 2×pH 4,01, 7,00, 9,21 and 10,01 buffer sachets<br>2×2 conductivity sachets (1413 µS/cm and 12,88 mS/cm)                                 | pH/mV expansion unit, conductivity expansion unit                             | –                                                                                             |
| 30046254 | pH/Cond bench S470 USP/EP kit       | InLab® Pure Pro-ISM<br>InLab® 741-ISM (1,2 m cable)                                                | 2×pH 4,01, 7,00, 9,21 and 10,01 buffer sachets                                                                                          | pH/mV expansion unit, conductivity expansion unit                             | InLab® cable MultiPin-BNC/RCA 1,2 m                                                           |
| 30046255 | pH/Ion/Cond bench S475 Basic meter  | –                                                                                                  | 2×pH 4,01, 7,00, 9,21 and 10,01 buffer sachets<br>2×2 conductivity sachets (1413 µS/cm and 12,88 mS/cm)                                 | pH/mV expansion unit, pH/Ion expansion unit, conductivity expansion unit      | –                                                                                             |
| 30092988 | pH/Cond/DO/BOD bench S479 kit       | InLab® Expert Pro-ISM (1,2 m cable)<br>InLab® 731-ISM (1,2 m cable)<br>InLab® OptiOx (1,8 m cable) | 2×pH 4,01, 7,00, 9,21 and 10,01 buffer sachets<br>2×2 conductivity sachets (1413 µS/cm and 12,88 mS/cm)<br>zero oxygen tables (20 pcs.) | pH/mV expansion unit<br>conductivity expansion unit<br>DO/BOD expansion unit  | InLab® OptiOx adapter for uPlace™                                                             |
| 30092989 | pH/Ion/Cond/DO/BOD bench S975 uMix™ | InLab Expert Pro-ISM (1,2 m cable)<br>InLab 731-ISM (1,2 m cable)<br>InLab® OptiOx (1,8 m cable)   | 2×pH 4,01, 7,00, 9,21 and 10,01 buffer sachets<br>2×2 conductivity sachets (1413 µS/cm and 12,88 mS/cm)<br>zero oxygen tables (20 pcs.) | pH/Ion expansion unit<br>conductivity expansion unit<br>DO/BOD expansion unit | InLab® OptiOx calibration tube<br>InLab® OptiOx adapter for uPlace™<br>magnetic stirrer uMix™ |

Accessories

| Item No  | Description                                                         |
|----------|---------------------------------------------------------------------|
| 30034471 | SevenExcellence™ pH/Ion expansion unit                              |
| 30034472 | SevenExcellence™ pH/mV expansion unit                               |
| 30034473 | SevenExcellence™ conductivity expansion unit                        |
| 30034474 | SevenExcellence™ DO/BOD expansion unit                              |
| 30034475 | SevenExcellence™ blank expansion unit                               |
| 30323214 | EasyDirect™ pH license key                                          |
| 30040000 | uMix™ magnetic stirrer                                              |
| 30041154 | Semi-transparent cover (included in standard delivery)              |
| 30041155 | Protective film for display (2 pcs.)                                |
| 30019823 | uPlace™: electrode holder (included in standard delivery)           |
| 30115728 | Compact stirrer kit                                                 |
| 101229   | Propeller stirrer for compact stirrer (min. order quantity: 3 pcs.) |
| 30098212 | Compact stirrer adapter cable                                       |
| 21901297 | Barcode reader hand scanner                                         |

FiveGo™

All FiveGo™ meters/kits come with operating instructions, quick guide, batteries (4 × AAA), electrode clip and 2 clip covers, wrist strap, declaration of conformity and test certificate.

Measurement made easy

A large, well–structured display, intuitive button arrangement and simple menu ensure measurements can be performed in just a few clicks.

Ergonomic design for one handed operation

Thanks to its ergonomic design, handling the FiveGo™ is a comfortable experience. The foldable stand provides optimal viewing on flat surfaces.

IP67 water and dustproof

The IP67 waterproof protection makes the FiveGo™ portables able to withstand wet and demanding environments.



FiveGo™

| Item No  | Description                   | LE sensor included in the kit | Calibration standard included                   | Accessories included                   |
|----------|-------------------------------|-------------------------------|-------------------------------------------------|----------------------------------------|
| 30266946 | pH portable F2 meter          | –                             | –                                               | –                                      |
| 30266889 | pH portable F2 Standard kit   | LE438-IP67                    | 1 × 4,01, 7,00 and 9,21 buffer sachets          | –                                      |
| 30266881 | pH portable F2 Food kit       | LE427-IP67                    | 1 × 4,01, 7,00 and 9,21 buffer sachets          | FiveGo™ carrying case, 4 empty bottles |
| 30266882 | pH portable F2 Field kit      | LE438-IP67                    | 1 × 4,01, 7,00 and 9,21 buffer sachets          | FiveGo™ carrying case, 4 empty bottles |
| 30266883 | Cond portable F3 meter        | –                             | –                                               | –                                      |
| 30266888 | Cond portable F3 Standard kit | LE703-IP67                    | 1 × 1413 µS/cm 1 × 12,88 mS/cm standard sachets | –                                      |
| 30266887 | Cond portable F3 Field kit    | LE703-IP67                    | 1 × 1413 µS/cm 1 × 12,88 mS/cm standard sachets | FiveGo™ carrying case, 4 empty bottles |
| 30266884 | DO portable F4 meter          | –                             | –                                               | –                                      |
| 30266885 | DO portable F4 Standard kit   | LE621-IP67                    | –                                               | –                                      |
| 30266886 | DO portable F4 Field kit      | LE621-IP67                    | –                                               | FiveGo™ carrying case, 4 empty bottles |

Accessories

| Item No  | Description                                                           |
|----------|-----------------------------------------------------------------------|
| 30122304 | Wrist strap                                                           |
| 30239142 | FiveGo™ carrying case                                                 |
| 30239143 | FiveGo™ sample bottles (4 pieces)                                     |
| 30239144 | FiveGo™ electrode clip and clip covers                                |
| 51302329 | LTW-MiniDin adapter (to connect InLab® 710/720/731 / 741 / 751 / 752) |

# Seven2Go™

All Seven2Go™, SevenGo Duo™ and SevenGo Duo Pro™ meters come with user manual, quick guide, batteries (4 × AA), electrode clip (electrode holder at the instrument), wrist strap, declaration of conformity and test certificate.

### Fast quality data on the go

Seven2Go’s simplified menu, automatic sensor recognition, and calibration reminder ensure users obtain high quality data fast.

### Comfortable one-handed operation

Seven2Go’s easy-to-reach, hardkey buttons and sleek design ensure comfortable one-handed operation even under wet conditions and prolonged use.

### Rugged investment that lasts

Seven2Go’s IP67 design, reduced weight, and rugged uGo™ carrying case ensure a lasting instrument providing reliable data even under harsh conditions.



## Seven2Go™

| Item No  | Description                     | InLab® sensor included in the kit | Calibration standard included                    | Accessories included                                                    |
|----------|---------------------------------|-----------------------------------|--------------------------------------------------|-------------------------------------------------------------------------|
| 30207949 | pH portable S2 meter            | —                                 | —                                                | —                                                                       |
| 30207950 | pH portable S2 Standard kit     | InLab® Expert Go-ISM              | 2 × pH 4,01, 7,00, 9,21 and 10,01 buffer sachets | —                                                                       |
| 30207951 | pH portable S2 Field kit        | InLab® Expert Go-ISM              | 2 × pH 4,01, 7,00, 9,21 and 10,01 buffer sachets | uGo™ carrying case, 3 plastic sample bottles 50 ml                      |
| 30207952 | pH portable S2 Food kit         | InLab® Solid Go-ISM               | 2 × pH 4,01, 7,00, 9,21 and 10,01 buffer sachets | uGo™ carrying case, 3 plastic sample bottles 50 ml                      |
| 30207953 | pH portable S2 Light kit        | InLab® Versatile Pro              | 1 × pH 4,01, 7,00, 9,21 and 10,01 buffer sachets | —                                                                       |
| 30207954 | Cond portable S3 meter          | —                                 | —                                                | —                                                                       |
| 30207955 | Cond portable S3 Standard kit   | InLab® 738-ISM                    | 1 × 1413 µS/cm; 1 × 12,88 mS/cm standard sachets | —                                                                       |
| 30207956 | Cond portable S3 Field kit      | InLab® 738-ISM                    | 2 × 1413 µS/cm; 2 × 12,88 mS/cm standard sachets | uGo™ carrying case, 3 plastic sample bottles 50 ml                      |
| 30207957 | Cond portable S3 Bioethanol Kit | InLab® 725                        | —                                                | uGo™ carrying case, 3 plastic sample bottles 50 ml, LTW-MiniDIN adapter |
| 30207958 | DO portable S4 meter            | —                                 | —                                                | —                                                                       |
| 30207959 | DO portable S4 Standard kit     | InLab® 605-ISM                    | zero oxygen tablets for calibration              | calibration device InLab® 605                                           |

|          |                          |                |                                     |                                                                                   |
|----------|--------------------------|----------------|-------------------------------------|-----------------------------------------------------------------------------------|
| 30207960 | DO portable S4 Field kit | InLab® 605-ISM | zero oxygen tablets for calibration | uGo™ carrying case, 2 plastic sample bottles 50 ml, calibration device InLab® 605 |
|----------|--------------------------|----------------|-------------------------------------|-----------------------------------------------------------------------------------|

## Accessories

| Item No  | Description                                                                                                                           |
|----------|---------------------------------------------------------------------------------------------------------------------------------------|
| 51302329 | LTW-MiniDin adapter (to connect InLab® 710/720/731/741/751/752)                                                                       |
| 30122291 | Rubber holster to protect your Seven2Go™ instrument. Fits into the carrying case uGo™. Needs to be removed to exchange the batteries. |
| 30122300 | uGo™ carrying case                                                                                                                    |
| 30122303 | Seven2Go™ meter base accessory for extra stability on flat surfaces                                                                   |
| 30137805 | Seven2Go™ electrode clip and electrode clip covers (4 pcs.)                                                                           |
| 30122304 | Seven2Go™ wrist strap                                                                                                                 |
| 30137803 | Seven2Go™ bottom cap (blue)                                                                                                           |
| 30137806 | Seven2Go™ DC wallplug adapter for USB cable for optional DC power supply (Pro meters only)                                            |

# Seven2Go Pro™

All Seven2Go Pro™ meters/kits come with with user manual, quick guide, batteries (4 × AA), electrode clip (electrode holder at the instrument), wrist strap, base accessory (holder for benchtop use), USB cable: USB-A to micro-USB, declaration of conformity and test certificate.

### Fast quality data on the go

Seven2Go Pro’s simplified menus, LED status light and uFocus™ measurement screen provide mobile users with fast, high quality data.

### Comfortable one-handed Operation

Seven2Go’s easy-to-reach, hardkey buttons and sleek design ensure comfortable one-handed operation even under wet conditions and prolonged use.

### Rugged investment that lasts

Seven2Go Pro’s IP67 design, sunlight-proof screen, and optimized battery consumption ensure reliable data even under harsh conditions.



## Seven2Go Pro™

| Item No  | Description                   | InLab® sensor included in the kit | Calibration standard included                       | Accessories included                                               |
|----------|-------------------------------|-----------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|
| 30207961 | Cond portable S7 meter        | —                                 | —                                                   | electrode clip                                                     |
| 30207962 | Cond portable S7 Standard kit | InLab® 738-ISM                    | 2 × 1413 µS/cm and 2 × 12,88 mS/cm standard sachets | electrode clip                                                     |
| 30207963 | Cond portable S7 Field kit    | InLab® 738-ISM                    | 2 × 1413 µS/cm and 2 × 12,88 mS/cm standard sachets | uGo™ carrying case, 3 plastic sample bottles 50 ml                 |
| 30207873 | Cond portable S7 USP/EP kit   | InLab® 742-ISM                    | —                                                   | electrode clip, uGo™ carrying case, 3 plastic sample bottles 50 ml |
| 30207874 | pH/Ion portable S8 meter      | —                                 | —                                                   | electrode clip                                                     |

| Item No  | Description                     | InLab® sensor included in the kit | Calibration standard included           | Accessories included                                                               |
|----------|---------------------------------|-----------------------------------|-----------------------------------------|------------------------------------------------------------------------------------|
| 30207875 | pH/Ion portable S8 Standard kit | InLab® Expert Go-ISM              | 2×pH 4.01, 7.00, 9.21 and 10.01 sachets | rubber holster                                                                     |
| 30207877 | pH/Ion portable S8 Field kit    | InLab® Expert Go-ISM              | 2×pH 4.01, 7.00, 9.21 and 10.01 sachets | uGo™ carrying case, 3 plastic sample bottles 50 ml                                 |
| 30207878 | pH/Ion portable S8 Biotech kit  | InLab® Routine Go-ISM             | 2×pH 4.01, 7.00, 9.21 and 10.01 sachets | uGo™ carrying case, 3 plastic sample bottles 50 ml                                 |
| 30207879 | pH/Ion portable S8 Fluoride kit | Perfection comb F                 | –                                       | uGo™ carrying case, 3 plastic sample bottles 50 ml                                 |
| 30207970 | DO portable S9 meter            | –                                 | –                                       | –                                                                                  |
| 30207971 | DO portable S9 Standard kit     | InLab® OptiOx sensor (IP67)       | zero oxygen tablets                     | –                                                                                  |
| 30207972 | DO portable S9 Field kit        | InLab® OptiOx sensor (IP67)       | zero oxygen tablets                     | uGo™ carrying case, 3 plastic sample bottles 50 ml, InLab® OptiOx protective guard |
| 30207939 | DO portable S9 BOD kit          | InLab® OptiOx sensor (IP67)       | zero oxygen tablets                     | uGo™ carrying case, 3 plastic sample bottles 50 ml, InLab® OptiOx BOD Adapter      |

Accessories

| Item No  | Description                                                                                                                              |
|----------|------------------------------------------------------------------------------------------------------------------------------------------|
| 51302329 | LTW-MiniDin adapter (to connect InLab® 710/720/731 /741 /751 /752)                                                                       |
| 30323214 | EasyDirect™ pH software license key                                                                                                      |
| 30122291 | Rubber holster to protect your Seven2Go™ instrument. Fits into the the carring case uGo™. Needs to be removed to exchange the batteries. |
| 30122300 | uGo™ carrying case                                                                                                                       |
| 30122303 | Seven2Go™ meter base accessory for extra stability on flat surfaces                                                                      |
| 30137805 | Seven2Go™ electrode clip and electrode clip covers (4 pcs.)                                                                              |
| 30122304 | Seven2Go™ wrist strap                                                                                                                    |
| 30137803 | Seven2Go™ bottom cap (blue)                                                                                                              |
| 30019823 | Electrode holder uPlace™                                                                                                                 |

SevenGo Duo™ (Dual-Channel)

All SevenGo Duo™ meters come with user manual, quick guide, batteries (4 × AA), electrode clip (electrode holder at the instrument), wrist strap, declaration of conformity and test certificate.

Intuitive and easy operation

Designed in such a way that a single keystroke triggers a calibration run, measurement or review of stored data.

Intelligent sensor management (ISM®)

ISM® leaves nothing to chance! Calibration data and history are stored in the sensor and transferred automatically upon connection to the meter.

Ergonomic masterpiece

Fits your hand perfectly, regardless of whether you are right– or left–handed. Your thumb can reach all buttons – easy to operate.



SevenGo Duo™

| Item No  | Description                                  | InLab® sensor included in the kit                                       | Calibration standard included                                                  | Accessories included                                                                |
|----------|----------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 51302600 | pH /conductivity portable SG23 meter         | –                                                                       | –                                                                              | –                                                                                   |
| 51302601 | pH /conductivity portable SG23 kit           | InLab® Expert-Go-ISM and InLab® 738-ISM                                 | –                                                                              | 2-electrode-clip, rubber holster                                                    |
| 51302602 | pH /conductivity portable SG23 Field kit 2 m | InLab® Expert-Go-ISM (1,8 m cable) and InLab® 738-ISM (1,8 m cable)     | 2 ×pH 4,01, 7,00 and 9,21 sachets; 1413 µS/cm and 12,88 mS/cm standard sachets | 2-electrode-clip, uGo™ carrying case 3 plastic sample bottles 50 ml, rubber holster |
| 51302603 | pH /conductivity SG23 Field kit 5 m          | InLab® Expert-Go-ISM-5 m (5 m cable) and InLab® 738-ISM-5 m (5 m cable) | 2 ×pH 4,01, 7,00 and 9,21 sachets; 1413 µS/cm and 12,88 mS/cm standard sachets | 2-electrode-clip, uGo™ carrying case 3 plastic sample bottles 50 ml, rubber holster |

Accessories

| Item No  | Description                                                                            |
|----------|----------------------------------------------------------------------------------------|
| 51302319 | SevenGo™ two-electrode clip                                                            |
| 51302322 | SevenGo™ rubber holster                                                                |
| 51302324 | Bottom cap (blue)                                                                      |
| 51302325 | SevenGo™ clip                                                                          |
| 51302328 | Battery cover                                                                          |
| 51302329 | LTW-MiniDin adapter (to connect InLab® 710/720/731 /741 /751 /752)                     |
| 51302335 | Rubber feet (2 pcs.)                                                                   |
| 51302336 | SevenGo™ sealing kit (sealings for battery case, BNC plug, Cinch plug and screw holes) |
| 30122300 | uGo™ carrying case                                                                     |
| 51302331 | SevenGo™ wrist strap                                                                   |

# SevenGo Duo Pro™ (Dual-Channel)

All SevenGo Duo Pro™ meters come with user manual, quick guide, batteries (4 × AA), electrode clip (electrode holder at the instrument), wrist strap, declaration of conformity and test certificate and EasyDirect™ pH software licence key.

### Intuitive menu-guidance in 10 languages

Operation is extremely user-friendly thanks to flexible softkeys and large back-lit display. In addition, the instruments relay full sentences in 10 languages.

### Intelligent Sensor Management (ISM®)

ISM® leaves nothing to chance! Calibration data and history are stored in the sensor and transferred automatically upon connection to the meter.

### Ergonomic masterpiece

Fits your hand perfectly, regardless of whether you are right- or left-handed. Your thumb can reach all buttons – easy to operate.



## SevenGo Duo Pro™

| Item No  | Description                            | InLab® sensor included in the kit                                     | Calibration standard included                                                       | Accessories included                                                                                                                           |
|----------|----------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 51302610 | pH/Ion/DO SG68 meter                   | –                                                                     | –                                                                                   | –                                                                                                                                              |
| 51302611 | pH/Ion/DO SG68 kit                     | InLab® Expert-Go-ISM and InLab® 605-ISM                               | –                                                                                   | 2-electrode-clip (holds 2 sensors together), calibration device InLab® 605                                                                     |
| 51302612 | pH/Ion/DO SG68 Field kit 2 m           | InLab® Expert-Go-ISM (1,8 m cable) and InLab® 605-ISM (1,8 m cable)   | 2 × pH 4,01, 7,00 and 9,21 sachtes                                                  | 2-electrode-clip (holds 2 sensors together), uGo™ carrying case, 2 plastic sample bottles 50 ml, rubber holster, calibration device InLab® 605 |
| 51302613 | pH/Ion/DO SG68 Field kit 5 m           | InLab® Expert-Go-ISM-5m (5 m cable) and InLab® 605-ISM-5m (5 m cable) | 2 × pH 4,01, 7,00 and 9,21 sachtes                                                  | 2-electrode-clip (holds 2 sensors together), uGo™ carrying case, 2 plastic sample bottles 50 ml, rubber holster, calibration device InLab® 605 |
| 51302620 | pH/Ion/conductivity SG78 meter         | –                                                                     | –                                                                                   | –                                                                                                                                              |
| 51302621 | pH/Ion/conductivity SG78 kit           | InLab® Expert-Go-ISM and InLab® 738-ISM                               | –                                                                                   | 2-electrode clip (holds 2 sensors together)                                                                                                    |
| 51302622 | pH/Ion/conductivity SG78 Field kit 2 m | InLab® Expert-Go-ISM and InLab® 738-ISM (1,8 m cable)                 | 2 × pH 4,01, 7,00 and 9,21 sachets; 2 × 1413 µS/cm and 12,88 µS/cm standard sachets | 2-electrode-clip (holds 2 sensors together), uGo™ carrying case, 3 plastic sample bottles 50 ml, rubber holster                                |
| 51302623 | pH/Ion/conductivity SG78 Field kit 5 m | InLab® Expert-Go-ISM-5m and InLab® 738-ISM-5m (5 m cable)             | 2 × pH 4,01, 7,00 and 9,21 sachets; 2 × 1413 µS/cm and 12,88 µS/cm standard sachets | 2-electrode-clip (holds 2 sensors together), uGo™ carrying case, 3 plastic sample bottles 50 ml, rubber holster                                |

| Item No  | Description                         | InLab® sensor included in the kit                                    | Calibration standard included      | Accessories included                                                                                                                                                                  |
|----------|-------------------------------------|----------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 51302625 | pH/Ion/conductivity SG78 USP/EP kit | InLab® Pure Pro-ISM and InLab® 742-ISM                               | –                                  | 2-electrode clip (holds 2 sensors together), InLab® cable Multipin-BNC/RCA 1,8 m IP67                                                                                                 |
| 51302661 | pH/Ion/RDO SG98 meter               | –                                                                    | –                                  | –                                                                                                                                                                                     |
| 51302662 | pH/Ion/RDO SG98 kit                 | InLab® Expert-Go-ISM and InLab® OptiOx                               | –                                  | electrode clip                                                                                                                                                                        |
| 51302663 | pH/Ion/RDO SG98 Field kit 2m        | InLab® Expert-Go-ISM (1,8 m cable) and InLab® OptiOx (1,8 m cable)   | 2 × pH 4,01, 7,00 and 9,21 sachets | electrode clip, uGo™ carrying case, 3 plastic sample bottles 50 ml, InLab® OptiOx calibration tube, InLab® OptiOx adapter for uPlace™, rubber holster                                 |
| 51302664 | pH/Ion/RDO SG98 Field kit 5m        | InLab® Expert-Go-ISM-5m (5 m cable) and InLab® OptiOx-5m (5 m cable) | 2 × pH 4,01, 7,00 and 9,21 sachets | electrode clip, uGo™ carrying case, 3 plastic sample bottles 50 ml, InLab® OptiOx calibration tube, InLab® OptiOx adapter for uPlace™, InLab® OptiOx protective guard, rubber holster |

## Accessories

| Item No  | Description                                                        |
|----------|--------------------------------------------------------------------|
| 51302319 | SevenGo™ two-electrode clip                                        |
| 51302322 | SevenGo™ rubber holster                                            |
| 51302324 | Bottom cap (blue)                                                  |
| 51302325 | SevenGo™ clip                                                      |
| 30122300 | uGo™ carrying case                                                 |
| 51302335 | Rubber feet (2 pcs.)                                               |
| 51302336 | SevenGo™ sealing kit                                               |
| 51302329 | LTW-MiniDin adapter (to connect InLab® 710/720/731 /741 /751 /752) |

# InLab® Electrodes (Professional Line)

## Accurate pH electrodes and probes for a wide range of laboratory and field applications

A pH sensor is used to determine the alkalinity or acidity of a sample. METTLER TOLEDO offers reliable pH electrodes and probes that provide accurate readings for a wide range of laboratory and field applications. We have a broad portfolio that includes built-in temperature probes and low-maintenance options, and our Intelligent Sensor Management (ISM®) enhances data security and makes handling easy.

## pH sensors for general application

### Sensors for fast results with liquid electrolyte

|                                                                                    | Description            | Item No  | Measuring range | Temperature range (°C) | Intelligent sensor management (ISM®) | TRIS buffer compatible |
|------------------------------------------------------------------------------------|------------------------|----------|-----------------|------------------------|--------------------------------------|------------------------|
|    | InLab® Routine         | 51343050 | 0...14 pH       | 0...100                | –                                    | •                      |
|    | InLab® Routine Pro     | 51343054 | 0...14 pH       | 0...100                | –                                    | •                      |
|   | InLab® Routine Pro-ISM | 51344055 | 0...14 pH       | 0...100                | •                                    | •                      |
|  | InLab® Routine Pt1000  | 51343056 | 0...14 pH       | 0...100                | –                                    | •                      |
|  | InLab® Max Pro-ISM     | 30248830 | 0...14 pH       | 0...100                | •                                    | •                      |
|  | InLab® Science         | 51343070 | 0...12 pH       | 0...100                | –                                    | •                      |
|  | InLab® Science Pro-ISM | 51344072 | 0...12 pH       | 0...100                | •                                    | •                      |
|  | InLab® Versatile Pro   | 51343031 | 0...14 pH       | 0...100                | –                                    | •                      |

### Maintenance-free sensors

|                                                                                    | Description         | Item No  | Measuring range | Temperature range (°C) | Intelligent Sensor Management (ISM®) | TRIS buffer compatible |
|------------------------------------------------------------------------------------|---------------------|----------|-----------------|------------------------|--------------------------------------|------------------------|
|  | InLab® Expert       | 51343100 | 0...14 pH       | 0...100                | –                                    | •                      |
|  | InLab® Expert NTC30 | 51343104 | 0...14 pH       | 0...100                | –                                    | •                      |



| Temperature probe | Reference system | Silver ion trap | Reference junction   | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections  | Additional cable needed (for MT meters)   |
|-------------------|------------------|-----------------|----------------------|-------------------------------------|----------------|-----------------------------|----------------|---------------------------|-------------------------------------------|
|                   | ARGENTHAL™       | •               | Ceramic              | 3 mol/l KCl                         | HA             | 120/12                      | Glass          | S7                        | 30281915                                  |
| NTC30kΩ           | ARGENTHAL™       | •               | Ceramic              | 3 mol/l KCl                         | HA             | 120/12                      | Glass          | MultiPin™                 | 30281896                                  |
| NTC30kΩ           | ARGENTHAL™       | •               | Ceramic              | 3 mol/l KCl                         | HA             | 120/12                      | Glass          | MultiPin™                 | 30281896                                  |
| Pt1000            | ARGENTHAL™       | •               | Ceramic              | 3 mol/l KCl                         | HA             | 120/12                      | Glass          | MultiPin™                 | needed cable depends on non-MT instrument |
| NTC30kΩ           | ARGENTHAL™       | •               | Fixed glass sleeve   | 3 mol/l KCl                         | HA             | 120/12                      | Glass          | MultiPin™                 | 30281896                                  |
|                   | ARGENTHAL™       | •               | Movable glass sleeve | 3 mol/l KCl                         | A41            | 120/12                      | Glass          | S7                        | 30281915                                  |
| NTC30kΩ           | ARGENTHAL™       | •               | Movable glass sleeve | 3 mol/l KCl                         | A41            | 170/12                      | Glass          | MultiPin™                 | 30281896                                  |
| NTC30kΩ           | ARGENTHAL™       | •               | Replaceable ceramic  | 3 mol/l KCl                         | U              | 120/12                      | Polysulfone    | 1,2 m/BNC and RCA (Cinch) | –                                         |

| Temperature probe | Reference system | Silver ion trap | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections | Additional cable needed (for MT meters) |
|-------------------|------------------|-----------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|--------------------------|-----------------------------------------|
| –                 | ARGENTHAL™       | •               | 2 open junctions   | Xerolyt®                            | U              | 120/12                      | PEEK           | S7                       | 30281915                                |
| NTC30kΩ           | ARGENTHAL™       | •               | 2 open junctions   | Xerolyt®                            | U              | 120/12                      | PEEK           | MultiPin™                | 30281896                                |

|                                                                                    | Description              | Item No  | Measuring range | Temperature range (°C) | Intelligent Sensor Management (ISM®) | TRIS buffer compatible |
|------------------------------------------------------------------------------------|--------------------------|----------|-----------------|------------------------|--------------------------------------|------------------------|
|    | InLab® Expert Pt1000     | 51343105 | 0...14 pH       | 0...100                | –                                    | •                      |
|    | InLab® Expert Pro        | 51343101 | 0...14 pH       | 0...100                | –                                    | •                      |
|    | InLab® Expert Pro-ISM    | 30014096 | 0...14 pH       | 0...100                | •                                    | •                      |
|    | InLab® Expert DIN        | 51343103 | 0...14 pH       | 0...100                | –                                    | •                      |
|    | InLab® Expert Pro-ISM-2m | 51343102 | 0...14 pH       | 0...100                | •                                    | •                      |
|    | InLab® Power             | 51343110 | 0...12 pH       | 0...130                | –                                    | •                      |
|    | InLab® Power Pro-ISM     | 51344211 | 0...12 pH       | 0...130                | •                                    | •                      |
|    | InLab® Easy              | 51343010 | 0...14 pH       | 0...80                 | –                                    | •                      |
|  | InLab® Easy BNC          | 51343011 | 0...14 pH       | 0...80                 | –                                    | •                      |

pH sensors for special application

Sensors for small volumes

|                                                                                    | Description            | Item No  | Measuring range | Temperature range (°C) | Intelligent Sensor Management (ISM®) | TRIS buffer compatible |
|------------------------------------------------------------------------------------|------------------------|----------|-----------------|------------------------|--------------------------------------|------------------------|
|  | InLab® Ultra-Micro-ISM | 30244732 | 1...11 pH       | 0...80                 | •                                    | •                      |
|  | InLab® Micro           | 51343160 | 0...14 pH       | 0...80                 | –                                    | •                      |
|  | InLab® Micro Pro-ISM   | 51344163 | 0...14 pH       | 0...100                | •                                    | •                      |
|  | InLab® Semi-Micro      | 51343165 | 0...12 pH       | 0...100                | –                                    | •                      |
|  | InLab® NMR             | 59904572 | 0...14 pH       | 0...80                 | –                                    | •                      |
|  | InLab® Flex-Micro      | 51343164 | 0...14 pH       | 0...80                 | –                                    | •                      |

| Temperature probe | Reference system | Silver ion trap | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections  | Additional cable needed (for MT meters)   |
|-------------------|------------------|-----------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|---------------------------|-------------------------------------------|
| Pt1000            | ARGENTHAL™       | •               | 2 open junctions   | Xerolyt®                            | U              | 120/12                      | PEEK           | MultiPin™                 | needed cable depends on non-MT instrument |
| NTC30kΩ           | ARGENTHAL™       | •               | 2 open junctions   | Xerolyt®                            | U              | 120/12                      | PEEK           | 1,2 m/BNC and RCA (Cinch) | –                                         |
| NTC30kΩ           | ARGENTHAL™       | •               | 2 open junctions   | Xerolyt®                            | U              | 120/12                      | PEEK           | 1,2 m/BNC and RCA (Cinch) | –                                         |
| Pt1000            | ARGENTHAL™       | •               | 2 open junctions   | Xerolyt®                            | U              | 120/12                      | PEEK           | 1,2 m/DIN 19262 and 4mm   | –                                         |
| NTC30kΩ           | ARGENTHAL™       | •               | 2 open junctions   | Xerolyt®                            | U              | 120/12                      | PEEK           | 2,0 m/BNC and RCA (Cinch) | –                                         |
| –                 | SteadyForce™     | •               | Ceramic            | DPA Gel                             | A41            | 120/12                      | Glass          | S7                        | 30281915                                  |
| NTC30kΩ           | SteadyForce™     | •               | Ceramic            | DPA Gel                             | A41            | 170/12                      | Glass          | MultiPin™                 | 30281896                                  |
| –                 | ARGENTHAL™       | •               | Ceramic            | Gel                                 | U              | 120/12                      | Polysulfone    | S7                        | –                                         |
| –                 | ARGENTHAL™       | •               | Ceramic            | Gel                                 | U              | 120/12                      | Polysulfone    | 1,2 m/BNC                 | –                                         |

| Temperature probe | Reference system | Silver ion trap | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections | Additional cable needed (for MT meters) |
|-------------------|------------------|-----------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|--------------------------|-----------------------------------------|
| –                 | ARGENTHAL™       | •               | Ceramic            | FRISCOLYT-B®                        | LoT            | 40/3                        | Glass          | MultiPin™                | 30281896                                |
| –                 | ARGENTHAL™       | •               | Ceramic            | 3 mol/l KCl                         | U              | 60/3                        | Glass          | S7                       | 30281915                                |
| NTC30kΩ           | ARGENTHAL™       | •               | Ceramic            | 3 mol/l KCl                         | U              | 130/5                       | Glass          | MultiPin™                | 30281896                                |
| –                 | ARGENTHAL™       | •               | Open junction      | Xerolyt®Extra                       | A41            | 100/6                       | Glass          | S7                       | 30281915                                |
| –                 | ARGENTHAL™       | •               | Ceramic            | 3 mol/l KCl                         | U              | 200/3                       | Glass          | S7                       | 30281915                                |
| –                 | ARGENTHAL™       | •               | Porous PTFE        | 3 mol/l KCl                         | U              | 180/6                       | Epoxy          | 1,0 m/BNC                | –                                       |

Sensors for solid and viscous samples

|                                                                                  | Description            | Item No  | Measuring range | Temperature range (°C) | Intelligent Sensor Management (ISM®) | TRIS buffer compatible |
|----------------------------------------------------------------------------------|------------------------|----------|-----------------|------------------------|--------------------------------------|------------------------|
|  | InLab® Solids          | 51343153 | 1...11 pH       | 0...80                 | –                                    | •                      |
|  | InLab® Solids Pro-ISM  | 51344155 | 1...11 pH       | 0...80                 | •                                    | •                      |
|  | InLab® Viscous         | 51343150 | 0...14 pH       | 0...130                | –                                    | •                      |
|  | InLab® Viscous Pro-ISM | 51343151 | 0...14 pH       | 0...130                | •                                    | •                      |
|  | InLab® Dairy           | 59904591 | 0...12 pH       | 0...100                | –                                    | –                      |
|  | InLab® Surface         | 51343157 | 1...11 pH       | 0...50                 | –                                    | •                      |
|  | InLab® Surface Pro-ISM | 30249570 | 1...11 pH       | 0...50                 | •                                    | •                      |

Sensors for low temperatures and ionic strenght

|                                                                                    | Description         | Item No  | Measuring range | Temperature range (°C) | Intelligent Sensor Management (ISM®) | TRIS buffer compatible | Fulfills IP67 |
|------------------------------------------------------------------------------------|---------------------|----------|-----------------|------------------------|--------------------------------------|------------------------|---------------|
|  | InLab® Pure         | 30248112 | 1...11 pH       | 0...80                 | –                                    | •                      | –             |
|  | InLab® Pure Pro-ISM | 51344172 | 1...11 pH       | 0...80                 | •                                    | •                      | –             |
|  | InLab® Cool         | 51343174 | 1...11 pH       | –30...80               | –                                    | •                      | –             |
|  | InLab® Cool Pro-ISM | 30247850 | 1...11 pH       | –30...80               | •                                    | •                      | –             |
|  | InLab® Water Go     | 30253098 | 1...11 pH       | 0...80                 | –                                    | •                      | •             |
|  | InLab® Hydrofluoric | 51343176 | 1...11 pH       | 0...100                | –                                    | •                      | –             |

Long sensors

|                                                                                    | Description      | Item No  | Measuring range | Temperature range (°C) | TRIS buffer compatible | Temperature probe |
|------------------------------------------------------------------------------------|------------------|----------|-----------------|------------------------|------------------------|-------------------|
|  | InLab® Reach-225 | 30244733 | 0...14 pH       | 0...100                | •                      | –                 |

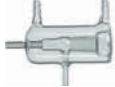
| Temperature probe | Reference system | Silver ion trap | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections | Additional cable needed (for MT meters) |
|-------------------|------------------|-----------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|--------------------------|-----------------------------------------|
| –                 | ARGENTHAL™       | •               | Open junction      | Xerolyt®Extra                       | LoT            | 25/6                        | Glass          | S7                       | 30281915                                |
| NTC30kΩ           | ARGENTHAL™       | •               | Open junction      | Xerolyt®Extra                       | LoT            | 25/6                        | Glass          | MultiPin™                | 30281896                                |
| –                 | SteadyForce™     | •               | Ceramic            | FRISCOLYT-C®                        | HA             | 40/6                        | Glass          | S7                       | 30281915                                |
| NTC30kΩ           | SteadyForce™     | •               | Ceramic            | FRISCOLYT-C®                        | HA             | 40/6                        | Glass          | MultiPin™                | 30281896                                |
| –                 | ARGENTHAL™       | •               | Ceramic 3x         | FRISCOLYT-B®                        | A41            | 120/12                      | Glass          | S7                       | 30281915                                |
| –                 | ARGENTHAL™       | •               | Ceramic ring       | 3 mol/l KCl                         | LoT            | 120/12                      | Polysulfone    | S7                       | 30281915                                |
| NTC30kΩ           | ARGENTHAL™       | •               | Ceramic ring       | 3 mol/l KCl                         | LoT            | 120/12                      | Polysulfone    | MultiPin™                | 30281896                                |

| Temperature probe | Reference system | Silver ion trap | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections         | Additional cable needed (for MT meters) |
|-------------------|------------------|-----------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|----------------------------------|-----------------------------------------|
| –                 | ARGENTHAL™       | •               | Fixed glass sleeve | FRISCOLYT-B®                        | LoT            | 120/12                      | Glass          | S7                               | 30281915                                |
| NTC30kΩ           | ARGENTHAL™       | •               | Fixed glass sleeve | 3 mol/l KCl                         | LoT            | 170/12                      | Glass          | MultiPin™                        | 30281896                                |
| –                 | ARGENTHAL™       | •               | Fixed glass sleeve | FRISCOLYT-B®                        | LoT            | 120/12                      | Glass          | S7                               | 30281915                                |
| NTC30kΩ           | ARGENTHAL™       | •               | Fixed glass sleeve | FRISCOLYT-B®                        | LoT            | 120/12                      | Glass          | MultiPin™                        | 30281896                                |
| NTC30kΩ           | ARGENTHAL™       | •               | Porous PTFE        | 3 mol/l KCl                         | LoT            | 120/12                      | Polysulfone    | 1,8 m/BNC (IP67) and RCA (Cinch) | –                                       |
| –                 | ARGENTHAL™       | •               | Ceramic            | 3 mol/l KCl                         | HF             | 120/12                      | Glass          | S7                               | 30281915                                |

| Reference system | Silver ion trap | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections | Additional cable needed (for MT meters) |
|------------------|-----------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|--------------------------|-----------------------------------------|
| ARGENTHAL™       | •               | Ceramic            | 3 mol/l KCl                         | HA             | 225/12                      | Glass          | S7                       | 30281915                                |

|                                                                                  | Description          | Item No  | Measuring range | Temperature range (°C) | TRIS buffer compatible | Temperature probe |
|----------------------------------------------------------------------------------|----------------------|----------|-----------------|------------------------|------------------------|-------------------|
|  | InLab® Reach-425     | 30248120 | 0...14 pH       | 0...100                | •                      | –                 |
|  | InLab® Reach Pro-225 | 30248826 | 0...14 pH       | 0...100                | •                      | NTC30kΩ           |
|  | InLab® Reach Pro-425 | 51343061 | 0...14 pH       | 0...100                | •                      | NTC30kΩ           |

Special technology

|                                                                                     | Description                                         | Item No  | Measuring range | Temperature range (°C) | Intelligent Sensor Management (ISM®) | Digital sensor |
|-------------------------------------------------------------------------------------|-----------------------------------------------------|----------|-----------------|------------------------|--------------------------------------|----------------|
|     | InLab® Smart Pro-ISM*                               | 30027775 | 0...14 pH       | 0...130                | •                                    | •              |
|     | InLab® Flow                                         | 59902917 | 1...11 pH       | 0...80                 | –                                    | –              |
|     | U402-S7/120                                         | 59902854 | 0...14 pH       | 0...80                 | –                                    | –              |
|  | Thermostatable Flow through cell for U402-611-S7/40 | 59904354 | –               | –                      | –                                    | –              |

\* only for SevenExcellence™ and SevenCompact™ (SevenDirect™ doesn't have Mini–LTW socket)

Electrodes for portable meters

|                                                                                    | Type                               | Description              | Item No  | Measuring range | Temperature range (°C) | Intelligent Sensor Management (ISM®) | TRIS buffer compatible | Fulfills IP67 |
|------------------------------------------------------------------------------------|------------------------------------|--------------------------|----------|-----------------|------------------------|--------------------------------------|------------------------|---------------|
|  | Generalist – Maintenance – free    | InLab® Expert Go         | 51340288 | 0...14 pH       | 0...100                | –                                    | •                      | •             |
|  | Generalist – Maintenance – free    | InLab® Expert Go-ISM     | 51344102 | 0...14 pH       | 0...100                | •                                    | •                      | •             |
|  | Generalist – Maintenance – free    | InLab® Expert Go-ISM-5m  | 51344103 | 0...14 pH       | 0...100                | •                                    | •                      | •             |
|  | Generalist – Maintenance – free    | InLab® Expert Go-ISM-10m | 51344104 | 0...14 pH       | 0...100                | •                                    | •                      | •             |
|  | Generalist – Fast results          | InLab® Routine Go-ISM    | 30248832 | 0...14 pH       | 0...100                | •                                    | •                      | •             |
|  | Specialist – Specific applications | InLab® Solids Go-ISM     | 51343156 | 1...11 pH       | 0...80                 | •                                    | •                      | •             |

| Reference system | Silver ion trap | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections | Additional cable needed (for MT meters) |
|------------------|-----------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|--------------------------|-----------------------------------------|
| ARGENTHAL™       | •               | Ceramic            | 3 mol/l KCl                         | HA             | 225/12                      | Glass          | S7                       | 30281915                                |
| ARGENTHAL™       | •               | Ceramic            | 3 mol/l KCl                         | HA             | 425/12                      | Glass          | MultiPin™                | 30281896                                |
| ARGENTHAL™       | •               | Ceramic            | 3 mol/l KCl                         | HA             | 425/12                      | Glass          | MultiPin™                | 30281896                                |

| TRIS buffer compatible | Temperature probe | Reference system | Silver ion trap | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections | Additional cable needed (for MT meters) |
|------------------------|-------------------|------------------|-----------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|--------------------------|-----------------------------------------|
| •                      | NTC30kΩ           | SteadyForce™     | •               | Ceramic            | FRISCOLYT-C®                        | HA             | 120/12                      | Glass          | K8SD                     | 30027776                                |
| –                      | –                 | SteadyForce™     | •               | Ceramic 2x         | DPA Gel                             | U              | 40/7                        | Glass          | S7                       | 30281915                                |
| –                      | –                 | Ag/AgCl          | –               | Ceramic            | 3M KCl sat. AgCl                    | U              | 120/12                      | Glass          | S7                       | 30281915                                |
| –                      | –                 | –                | –               | –                  | –                                   | –              | –                           | –              | –                        | –                                       |

| Temperature probe | Reference system | Silver ion trap | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections          | Additional cable needed (for MT meters) |
|-------------------|------------------|-----------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|-----------------------------------|-----------------------------------------|
| NTC30kΩ           | ARGENTHAL™       | •               | 2 open junctions   | Xerolyt®                            | U              | 120/12                      | PEEK           | 1,8 m/BNC (IP67) and RCA (Cinch)  | –                                       |
| NTC30kΩ           | ARGENTHAL™       | •               | 2 open junctions   | Xerolyt®                            | U              | 120/12                      | PEEK           | 1,8 m/BNC (IP67) and RCA (Cinch)  | –                                       |
| NTC30kΩ           | ARGENTHAL™       | •               | 2 open junctions   | Xerolyt®                            | U              | 120/12                      | PEEK           | 5,0 m/BNC (IP67) and RCA (Cinch)  | –                                       |
| NTC30kΩ           | ARGENTHAL™       | •               | 2 open junctions   | Xerolyt®                            | U              | 120/12                      | PEEK           | 10,0 m/BNC (IP67) and RCA (Cinch) | –                                       |
| NTC30kΩ           | ARGENTHAL™       | •               | Ceramic            | 3 mol/l KCl                         | HA             | 120/12                      | Glass          | 1,8 m/BNC (IP67) and RCA (Cinch)  | –                                       |
| NTC30kΩ           | ARGENTHAL™       | •               | Open junction      | Xerolyt®Extra                       | LoT            | 25/6                        | Glass          | 1,8 m/BNC (IP67) and RCA (Cinch)  | –                                       |

## Half-cells and reference electrodes

### Half-cells

|                                                                                  | Description | Item No  | Measuring range | Temperature range (°C) | TRIS buffer compatible |
|----------------------------------------------------------------------------------|-------------|----------|-----------------|------------------------|------------------------|
|  | InLab® Mono | 51343195 | 0...14 pH       | 0...100                | •                      |

|                                                                                  |                  |          |           |         |   |
|----------------------------------------------------------------------------------|------------------|----------|-----------|---------|---|
|  | InLab® Mono Plus | 51343196 | 0...12 pH | 0...130 | • |
|----------------------------------------------------------------------------------|------------------|----------|-----------|---------|---|

### Reference electrodes

|                                                                                  | Description      | Item No  | Temperature range (°C) | TRIS buffer compatible | Reference system |
|----------------------------------------------------------------------------------|------------------|----------|------------------------|------------------------|------------------|
|  | InLab® Reference | 51343190 | 0...100                | •                      | ARGENTHAL™       |

|                                                                                  |                       |          |        |   |         |
|----------------------------------------------------------------------------------|-----------------------|----------|--------|---|---------|
|  | InLab® Reference Plus | 51343191 | 0...60 | • | Ag/AgCl |
|----------------------------------------------------------------------------------|-----------------------|----------|--------|---|---------|

|                                                                                  |                       |          |         |   |            |
|----------------------------------------------------------------------------------|-----------------------|----------|---------|---|------------|
|  | InLab® Reference Flow | 51343192 | 0...130 | • | ARGENTHAL™ |
|----------------------------------------------------------------------------------|-----------------------|----------|---------|---|------------|

| Reference system | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable / connections | Additional cable needed (for MT meters) |
|------------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|---------------------------|-----------------------------------------|
| –                | –                  | –                                   | HA             | 120/12                      | Glass          | S7                        | 30281915                                |

|   |   |   |     |        |       |    |          |
|---|---|---|-----|--------|-------|----|----------|
| – | – | – | A41 | 120/12 | Glass | S7 | 30281915 |
|---|---|---|-----|--------|-------|----|----------|

| Silver ion trap | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable / connections | Additional cable needed (for MT meters) |
|-----------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|---------------------------|-----------------------------------------|
| •               | Ceramic            | 3 mol/l KCl                         | –              | 120/12                      | Glass          | S7                        | 30281923                                |

|   |                     |             |   |        |       |    |          |
|---|---------------------|-------------|---|--------|-------|----|----------|
| – | Movable PTFE sleeve | 3 mol/l KCl | – | 120/12 | Glass | S7 | 30281923 |
|---|---------------------|-------------|---|--------|-------|----|----------|

|   |                |             |   |        |       |    |          |
|---|----------------|-------------|---|--------|-------|----|----------|
| – | Triple ceramic | 3 mol/l KCl | – | 120/12 | Glass | S7 | 30281923 |
|---|----------------|-------------|---|--------|-------|----|----------|

## LE Electrodes (Entry-Level Line)

#### Ease of use

The well thought trough construction is designed for easy handling and low maintenance.

#### Tried and trusted

High quality membrane glass and well-established technologies ensure reliable results.

#### Perfect match

Dedicated sensors for FiveEasy™ and FiveGo™; compatible with all standard pH meters with BNC connectors and ideal for standard applications.

|                                                                                    | Description | Item No  | Measuring range | Temperature range (°C) | TRIS buffer compatible |
|------------------------------------------------------------------------------------|-------------|----------|-----------------|------------------------|------------------------|
|  | LE407       | 51340330 | 0...14 pH       | 0...80                 | –                      |

|                                                                                    |       |          |           |        |   |
|------------------------------------------------------------------------------------|-------|----------|-----------|--------|---|
|  | LE409 | 51340331 | 0...14 pH | 0...80 | – |
|------------------------------------------------------------------------------------|-------|----------|-----------|--------|---|

|                                                                                    |       |          |           |        |   |
|------------------------------------------------------------------------------------|-------|----------|-----------|--------|---|
|  | LE420 | 51340332 | 0...14 pH | 0...80 | • |
|------------------------------------------------------------------------------------|-------|----------|-----------|--------|---|

|                                                                                    |        |          |           |        |   |
|------------------------------------------------------------------------------------|--------|----------|-----------|--------|---|
|  | LE427* | 51340333 | 1...11 pH | 0...50 | – |
|------------------------------------------------------------------------------------|--------|----------|-----------|--------|---|



| Temperature probe | Reference system | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections |
|-------------------|------------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|--------------------------|
| –                 | Ag/AgCl          | Nylon              | Gel                                 | U              | 120/12                      | POM            | 1,0 m/BNC                |

|   |         |         |                  |    |        |       |           |
|---|---------|---------|------------------|----|--------|-------|-----------|
| – | Ag/AgCl | Ceramic | 3M KCl sat. AgCl | HA | 120/12 | Glass | 1,0 m/BNC |
|---|---------|---------|------------------|----|--------|-------|-----------|

|   |         |                     |            |    |        |       |           |
|---|---------|---------------------|------------|----|--------|-------|-----------|
| – | Ag/AgCl | Movable PTFE sleeve | 3mol/l KCl | HA | 120/12 | Glass | 1,0 m/BNC |
|---|---------|---------------------|------------|----|--------|-------|-----------|

|   |         |         |         |     |      |      |           |
|---|---------|---------|---------|-----|------|------|-----------|
| – | Ag/AgCl | Ceramic | DPA gel | LoT | 17/6 | PBT* | 1,2 m/BNC |
|---|---------|---------|---------|-----|------|------|-----------|

|                                                                                  | Description | Item No  | Measuring range | Temperature range (°C) | TRIS buffer compatible |
|----------------------------------------------------------------------------------|-------------|----------|-----------------|------------------------|------------------------|
|  | LE438       | 51340242 | 0...14 pH       | 0...80                 | –                      |
|  | LE422       | 30089747 | 0...14 pH       | 0...80                 | –                      |
|  | LE410       | 51340348 | 0...14 pH       | 0...80                 | –                      |

\* Glass tip: 15 mm

Electrodes for portable meters

|                                                                                  | Description | Item No  | Measuring range | Temperature range (°C) | Fulfills IP67 |
|----------------------------------------------------------------------------------|-------------|----------|-----------------|------------------------|---------------|
|  | LE438 IP67  | 30247153 | 0...14 pH       | 0...80                 | •             |
|  | LE427 IP67  | 30259840 | 0...11 pH       | 0...50                 | •             |

| Temperature probe | Reference system | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections  |
|-------------------|------------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|---------------------------|
| NTC30kΩ           | Ag/AgCl          | Nylon              | Gel                                 | U              | 120/12                      | POM            | 1,0 m/BNC and RCA (Cinch) |
| –                 | Ag/AgCl          | Ceramic            | Gel                                 | U              | 90/4,3                      | Glass          | 1,0 m/BNC                 |
| NTC30kΩ           | Ag/AgCl          | Ceramic            | 3M KCl sat. AgCl                    | HA             | 120/12                      | Glass          | 1,0 m/BNC and RCA (Cinch) |

| Temperature probe | Reference system | Reference junction | Electrolyte for reference electrode | Membrane glass | Shaft length/ diameter (mm) | Shaft material | Fixed cable / connections        |
|-------------------|------------------|--------------------|-------------------------------------|----------------|-----------------------------|----------------|----------------------------------|
| NTC30kΩ           | Ag/AgCl          | Nylon              | Gel                                 | U              | 120/12                      | POM            | 1,0 m/BNC (IP67) and RCA (Cinch) |
| –                 | Ag/AgCl          | Ceramic            | DPA gel                             | LoT            | 17/6                        | PBT            | 1,0 m/BNC (IP67)                 |

# InLab® Electrodes (Professional Line)

## Platinum, gold and silver electrodes

Redox is an ideal solution for testing the oxidation/reduction in factory and industrial waste (chromium and cyanide concentration), fish farming and aquariums (water quality), and swimming pools (sanitation levels).

## Combined ORP electrodes

|                                                                                    | Description        | Item No  | Metal         | Temperature range (°C) | TRIS buffer compatible |
|------------------------------------------------------------------------------------|--------------------|----------|---------------|------------------------|------------------------|
|    | InLab® Redox       | 51343200 | Platinum ring | 0...100                | •                      |
|    | InLab® Redox-L     | 51343202 | Platinum ring | 0...100                | •                      |
|    | InLab® Redox Flow  | 51343201 | Platinum ring | 0...100                | •                      |
|    | InLab® Redox Micro | 51343203 | Platinum ring | 0...100                | •                      |
|  | InLab® Redox Au    | 51343204 | Gold ring     | 0...100                | •                      |
|  | InLab® Redox Ag    | 51343205 | Silver ring   | 0...100                | •                      |

## ORP half-cells

|                                                                                    | Description        | Item No  | Metal         | Temperature range (°C) |
|------------------------------------------------------------------------------------|--------------------|----------|---------------|------------------------|
|  | InLab® Redox Pt805 | 59904377 | Platinum ring | −30...130              |
|  | InLab® Redox Ag805 | 59904391 | Silver ring   | −30...130              |
|  | InLab® Redox Ag850 | 59904408 | Silver tip    | −30...80               |



| Reference system | Silver ion trap | Reference junction   | Electrolyte for reference electrode | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections | Additional cable needed (for MT meters) |
|------------------|-----------------|----------------------|-------------------------------------|-----------------------------|----------------|--------------------------|-----------------------------------------|
| ARGENTHAL™       | •               | Ceramic              | 3 mol/l KCl                         | 120/ 12                     | Glass          | S7                       | 30281915                                |
| ARGENTHAL™       | •               | Ceramic              | 3 mol/l KCl                         | 170/ 12                     | Glass          | S7                       | 30281915                                |
| ARGENTHAL™       | •               | Movable glass sleeve | 3 mol/l KCl                         | 120/ 12                     | Glass          | S7                       | 30281915                                |
| ARGENTHAL™       | •               | Ceramic              | 3 mol/l KCl                         | 100/ 6                      | Glass          | S7                       | 30281915                                |
| ARGENTHAL™       | •               | Ceramic              | 3 mol/l KCl                         | 120/ 12                     | Glass          | S7                       | 30281915                                |
| ARGENTHAL™       | •               | Ceramic              | 1mol/l KNO3                         | 120/ 12                     | Glass          | S7                       | 30281915                                |

| TRIS buffer compatible | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections | Additional cable needed (for MT meters) |
|------------------------|-----------------------------|----------------|--------------------------|-----------------------------------------|
| •                      | 120/ 12                     | Glass          | S7                       | 30281915                                |
| •                      | 120/ 12                     | Glass          | S7                       | 30281915                                |
| •                      | 120/ 12                     | PP             | S7                       | 30281915                                |

# LE Electrodes (Entry-Level Line)

**Ease of use**  
The well thought trough construction is designed for easy handling and low maintenance.

**Tried and trusted**  
High quality membrane glass and well-established technologies ensure reliable results.

**Perfect match**  
Dedicated sensors for FiveEasy™ and FiveGo™; compatible with all standard pH meters with BNC connectors and ideal for standard applications.

## Combined ORP Electrodes

|                                                                                  | Description | Item No  | Metal        | Temperature range (°C) | Reference system |
|----------------------------------------------------------------------------------|-------------|----------|--------------|------------------------|------------------|
|  | LE501       | 51340338 | Platinum pin | 0...80                 | Ag/AgCl          |
|  | LE510       | 51340339 | Platinum pin | 0...80                 | Ag/AgCl          |



| Reference junction | Electrolyte for reference electrode | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections | Additional cable needed (for MT meters) |
|--------------------|-------------------------------------|-----------------------------|----------------|--------------------------|-----------------------------------------|
| Ceramic            | 3M KCl sat. AgCl                    | 120/12                      | Glass          | 1,0m /BNC                | –                                       |
| Nylon              | Gel                                 | 120/12                      | POM            | 1,0m /BNC                | –                                       |

# InLab® Sensors (Professional Line)

**Accuracy over a wide conductivity range**

Conductivity sensors have many different applications. Our IP67-rated field and laboratory conductivity sensors are accurate even at low conductivity levels, and they are ideally suited for wet environments.

**High accuracy at low conductivities**

Our 2-pole conductivity cells are the perfect solution to obtaining accurate measurements in low-conductivity samples such as the pure water required for semiconductor manufacturing or highly diluted aqueous and non-aqueous solutions.

**Expanded conductivity range**

Probes with 4-pole conductivity cells display a great linearity over a large conductivity range. By eliminating polarization effects when working with a laboratory conductivity or field sensor, accuracy over a large range can be assured.

**Integrated temperature probe**

The value of a solution measured by a conductivity cell is temperature dependent. Our laboratory conductivity electrodes include an integrated temperature probe that ensures you measure with the right temperature compensation.

**For benchtop meters**

|                                                                                    | Description                  | Item No  | Measuring range     | Temperature range (°C) | Intelligent Sensor Management (ISM®) |
|------------------------------------------------------------------------------------|------------------------------|----------|---------------------|------------------------|--------------------------------------|
|   | InLab® 731                   | 51344020 | 0,01...1000 mS/cm   | 0...100                | —                                    |
|  | InLab® 731-2m                | 51344022 | 0,01...1000 mS/cm   | 0...100                | —                                    |
|  | InLab® 731-ISM               | 30014092 | 0,01...1000 mS/cm   | 0...100                | •                                    |
|  | InLab® 731-ISM-2m            | 30014093 | 0,01...1000 mS/cm   | 0...100                | •                                    |
|  | InLab® 741                   | 51344024 | 0,001...500 µS/cm   | 0...100                | —                                    |
|  | InLab® 741-5m                | 51344026 | 0,001...500 µS/cm   | 0...100                | —                                    |
|  | InLab® 741-ISM               | 30014094 | 0,001...500 µS/cm   | 0...100                | •                                    |
|  | InLab® Trace                 | 30014097 | 0,0001...1000 µS/cm | 0...100                | •                                    |
|  | InLab® Trace Kit & Flow-cell | 30014099 | 0,0001...1000 µS/cm | 0...100                | •                                    |
|  | InLab® 710                   | 51302256 | 0,01...500 mS/cm    | 0...100                | —                                    |
|  | InLab® 720                   | 51302255 | 0,1...500 µS/cm     | 0...100                | —                                    |



| Digital sensor | Fulfills IP67 | Temperature probe | Reference system | Cell type        | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections |
|----------------|---------------|-------------------|------------------|------------------|-----------------------------|----------------|--------------------------|
| —              | —             | NTC30kΩ           | 0,57 /cm         | 4 graphite poles | 120/12                      | Epoxy          | 1,2 m/Mini-DIN           |
| —              | —             | NTC30kΩ           | 0,57 /cm         | 4 graphite poles | 120/12                      | Epoxy          | 2,0 m/Mini-DIN           |
| —              | —             | NTC30kΩ           | 0,57 /cm         | 4 graphite poles | 120/12                      | Epoxy          | 1,2 m/Mini-DIN           |
| —              | —             | NTC30kΩ           | 0,57 /cm         | 4 graphite poles | 120/12                      | Epoxy          | 2,0 m/Mini-DIN           |
| —              | —             | NTC30kΩ           | 0,105 /cm        | 2 steel poles    | 120/12                      | Steel          | 1,2 m/Mini-DIN           |
| —              | —             | NTC30kΩ           | 0,105 /cm        | 2 steel poles    | 120/12                      | Steel          | 5,0 m/Mini-DIN           |
| —              | —             | NTC30kΩ           | 0,105 /cm        | 2 steel poles    | 120/12                      | Steel          | 1,2 m/Mini-DIN           |
| •              | •             | Pt1000            | 0,01 /cm         | 2 titanium poles | 67/12                       | Titanium       | 1,8 m/Mini-LTW (IP67)    |
| •              | •             | Pt1000            | 0,01 /cm         | 2 titanium poles | 67/12                       | Titanium       | 1,8 m/Mini-LTW (IP67)    |
| —              | —             | NTC30kΩ           | 0,80 /cm         | 4 platinum poles | 120/12                      | Glass          | 1,0 m/Mini-DIN           |
| —              | —             | NTC30kΩ           | 0,06 /cm         | 2 platinum poles | 120/12                      | Glass          | 1,0 m/Mini-DIN           |

|                                                                                  | Description    | Item No  | Measuring range  | Temperature range (°C) | Intelligent Sensor Management (ISM®) |
|----------------------------------------------------------------------------------|----------------|----------|------------------|------------------------|--------------------------------------|
|  | InLab® 725     | 30014160 | 0,1...500 µS/cm  | 0...100                | —                                    |
|  | InLab® 751-4mm | 51344030 | 0,01...100 mS/cm | 0...100                | —                                    |
|  | InLab® 752-6mm | 51344031 | 0,01...112 mS/cm | 0...100                | —                                    |

For portable meters

|                                                                                    | Description                         | Item No  | Measuring range   | Temperature range (°C) | Intelligent Sensor Management (ISM®) |
|------------------------------------------------------------------------------------|-------------------------------------|----------|-------------------|------------------------|--------------------------------------|
|    | InLab® 738                          | 51344120 | 0,01...1000 mS/cm | 0...100                | —                                    |
|    | InLab® 738-5m                       | 51344122 | 0,01...1000 mS/cm | 0...100                | —                                    |
|    | InLab® 738-10m                      | 51344124 | 0,01...1000 mS/cm | 0...100                | —                                    |
|  | InLab® 738-ISM                      | 51344110 | 0,01...1000 mS/cm | 0...100                | •                                    |
|  | InLab® 738-ISM-5m                   | 51344112 | 0,01...1000 mS/cm | 0...100                | •                                    |
|  | InLab® 738-ISM-10m                  | 51344114 | 0,01...1000 mS/cm | 0...100                | •                                    |
|  | InLab® 742                          | 51344126 | 0,001...500 µS/cm | 0...100                | —                                    |
|  | InLab® 742-5m                       | 51344128 | 0,001...500 µS/cm | 0...100                | —                                    |
|  | InLab® 742-ISM                      | 51344116 | 0,001...500 µS/cm | 0...100                | •                                    |
|  | InLab® 742-ISM-5m                   | 51344118 | 0,001...500 µS/cm | 0...100                | •                                    |
|  | RedCap 950-K19 / 120 / 1m / 2x-27.4 | 59904438 | 10...50000 µS/cm  | 0...60                 | —                                    |

| Digital sensor | Fulfills IP67 | Temperature probe | Reference system | Cell type        | Shaft length / diameter (mm) | Shaft material | Fixed cable / connections |
|----------------|---------------|-------------------|------------------|------------------|------------------------------|----------------|---------------------------|
| —              | —             | NTC30kΩ           | 0,1 /cm          | 2 platinum poles | 120 / 12                     | Glass          | 1,0 m / Mini-DIN          |
| —              | —             | NTC30kΩ           | 1,0 /cm          | 2 platinum poles | 120 / 4                      | Glass          | 1,0 m / Mini-DIN          |
| —              | —             | NTC30kΩ           | 1,0 /cm          | 2 platinum poles | 180 / 6                      | Glass          | 1,0 m / Mini-DIN          |

| Fulfills IP67 | Temperature probe | Cell constant | Cell type        | Shaft length / diameter (mm) | Shaft material | Fixed cable / connections |
|---------------|-------------------|---------------|------------------|------------------------------|----------------|---------------------------|
| •             | NTC30kΩ           | 0,57 /cm      | 4 graphite poles | 120 / 12                     | Epoxy          | 1,8 m / IP67 LTW          |
| •             | NTC30kΩ           | 0,57 /cm      | 4 graphite poles | 120 / 12                     | Epoxy          | 5,0 m / IP67 LTW          |
| •             | NTC30kΩ           | 0,57 /cm      | 4 graphite poles | 120 / 12                     | Epoxy          | 10,0 m / IP67 LTW         |
| •             | NTC30kΩ           | 0,57 /cm      | 4 graphite poles | 120 / 12                     | Epoxy          | 1,8 m / IP67 LTW          |
| •             | NTC30kΩ           | 0,57 /cm      | 4 graphite poles | 120 / 12                     | Epoxy          | 5,0 m / IP67 LTW          |
| •             | NTC30kΩ           | 0,57 /cm      | 4 graphite poles | 120 / 12                     | Epoxy          | 10,0 m / IP67 LTW         |
| •             | NTC30kΩ           | 0,105 /cm     | 2 steel poles    | 120 / 12                     | Steel          | 1,8 m / IP67 LTW          |
| •             | NTC30kΩ           | 0,105 /cm     | 2 steel poles    | 120 / 12                     | Steel          | 5,0 m / IP67 LTW          |
| •             | NTC30kΩ           | 0,105 /cm     | 2 steel poles    | 120 / 12                     | Steel          | 1,8 m / IP67 LTW          |
| •             | NTC30kΩ           | 0,105 /cm     | 2 steel poles    | 120 / 12                     | Steel          | 5,0 m / IP67 LTW          |
| —             | —                 | 1,0 cm-1      | 2 platinum poles | 120 / 12                     | Polysulfone    | 1,0 m / 2 × 4 mm banana   |

# LE Electrodes (Entry-Level Line)

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**Perfect match**

Dedicated sensors for FiveEasy™ and FiveGo™; compatible with all standard pH meters with BNC connectors and ideal for standard applications.

|                                                                                  | Description  | Item No  | Measuring range  | Temperature range (°C) | Fulfills IP67 |
|----------------------------------------------------------------------------------|--------------|----------|------------------|------------------------|---------------|
|  | LE703        | 51340335 | 0,01...200 mS/cm | 0...80                 | —             |
|  | LE703 IP67 * | 30266974 | 0,01...200 mS/cm | 0...80                 | •             |
|  | LE740        | 51340336 | 0,01...500 µS/cm | 0...60                 | —             |

\* only for FiveGo™ F3



| Temperature probe | Reference system (pH, ORP), cell constant (cond) | Cell type        | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections |
|-------------------|--------------------------------------------------|------------------|-----------------------------|----------------|--------------------------|
| NTC30kΩ           | 0,55/cm                                          | 4 graphite poles | 120/12                      | PC (+ABS)      | 1,0 m/Mini-DIN           |
| NTC30kΩ           | 0,55/cm                                          | 4 graphite poles | 120/12                      | PC (+ABS)      | 2,0 m/IP67 LTW           |
| NTC30kΩ           | 0,08/cm                                          | 2 steel poles    | 120/12                      | PVC/steel      | 1,0 m/Mini-DIN           |

# Half-Cells

## Modular, easy-to-exchange half-cell ISEs

Our ion-selective half-cell ISE electrodes consist of a universal shaft plus an ion-specific module that can be quickly exchanged to measure different ion species. Simply choose the correct half-cell for your application to achieve easy readings for your species of interest. A separate reference electrode is needed.



### Ion-selective and gas sensitive electrodes (half-cells)

| Description                     | Item No  | Measuring range   | Temperature range (°C) | Optimal pH range |
|---------------------------------|----------|-------------------|------------------------|------------------|
| DX207-Li electrode              | 51107673 | 1e0...1e-5 mol/l  | 0...50                 | 2...12           |
| DX218-NH <sub>4</sub> electrode | 51340900 | 1e0...1e-5 mol/l  | 0...50                 | 2...9            |
| DX219-F electrode               | 51340500 | 1e0...1e-6 mol/l  | 0...80                 | 4...10           |
| DX223-Na electrode              | 51340263 | 1e0...1e-7 mol/l  | 0...80                 | 8...11           |
| DX226-CN electrode              | 51107681 | 1e0...1e-5 mol/l  | 0...80                 | 4...13           |
| DX232-S electrode               | 51107675 | 1e0...1e-6 mol/l  | 0...80                 | 4...13           |
| DX235-Cl electrode              | 51340400 | 1e0...1e-5 mol/l  | 0...80                 | 2...13           |
| DX239-K electrode               | 51340700 | 1e0...1e-6 mol/l  | 0...50                 | 2...12           |
| DX240-Ca electrode              | 51340600 | 1e0...1e-6 mol/l  | 0...50                 | 2...12           |
| DX258-SCN electrode             | 51107870 | 1e0...1e-5 mol/l  | 0...80                 | 2...10           |
| DX262-NO <sub>3</sub> electrode | 51340800 | 1e0...1e-5 mol/l  | 0...50                 | 2...12           |
| DX264-Cu electrode              | 51107678 | 1e0...1e-5 mol/l  | 0...80                 | 2...8            |
| DX280-Br electrode              | 51340300 | 1e0...1e-6 mol/l  | 0...80                 | 2...13           |
| DX287-BF <sub>4</sub> electrode | 51107676 | 1e0...1e-6 mol/l  | 0...50                 | 2...12           |
| DX312-Cd electrode              | 51107672 | 1e0...1e-5 mol/l  | 0...50                 | 2...8            |
| DX327-I electrode               | 51107680 | 1e0...1e-6 mol/l  | 0...80                 | 1...13           |
| DX337-Ba electrode              | 51107674 | 1e0...1e-5 mol/l  | 0...50                 | 2...12           |
| DX407-Pb electrode              | 51107873 | 1e0...1e-5 mol/l  | 0...50                 | 2...8            |
| Gas sensitive ammonia electrode | 51341000 | 5e-2...1e-6 mol/l | 0...50                 | > 11             |

| Electrolyte for reference electrode | Membrane type | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections | Additional cable needed (for MT meters) |
|-------------------------------------|---------------|-----------------------------|----------------|--------------------------|-----------------------------------------|
| 3 mol/l KCl                         | Polymer       | 120/ 12                     | POM/PVC        | S7                       | 30281915                                |
| 2 mol/l MgSO <sub>4</sub>           | Polymer       | 120/ 12                     | POM/PVC        | S7                       | 30281915                                |
| 3 mol/l KCl                         | Solid state   | 120/ 12                     | POM            | S7                       | 30281915                                |
| 0,1 mol/l NH <sub>4</sub> Cl        | Na-Glass      | 120/ 12                     | Glass          | S7                       | 30281915                                |
| 1 mol/l KNO <sub>3</sub>            | Solid state   | 120/ 12                     | POM            | S7                       | 30281915                                |
| 1 mol/l KNO <sub>3</sub>            | Solid state   | 120/ 12                     | POM            | S7                       | 30281915                                |
| 1 mol/l KNO <sub>3</sub>            | Solid state   | 120/ 12                     | POM            | S7                       | 30281915                                |
| 2 mol/l MgSO <sub>4</sub>           | Polymer       | 120/ 12                     | POM/PVC        | S7                       | 30281915                                |
| 2 mol/l MgSO <sub>4</sub>           | Polymer       | 120/ 12                     | POM/PVC        | S7                       | 30281915                                |
| 1 mol/l KNO <sub>3</sub>            | Solid state   | 120/ 12                     | POM            | S7                       | 30281915                                |
| 2 mol/l MgSO <sub>4</sub>           | Polymer       | 120/ 12                     | POM/PVC        | S7                       | 30281915                                |
| 1 mol/l KNO <sub>3</sub>            | Solid state   | 120/ 12                     | POM            | S7                       | 30281915                                |
| 2 mol/l MgSO <sub>4</sub>           | Polymer       | 120/ 12                     | POM/PVC        | S7                       | 30281915                                |
| 1 mol/l KNO <sub>3</sub>            | Polymer       | 120/ 12                     | POM/PVC        | S7                       | 30281915                                |
| 1 mol/l KNO <sub>3</sub>            | Solid state   | 120/ 12                     | POM            | S7                       | 30281915                                |
| 3 mol/l KCl                         | Polymer       | 120/ 12                     | POM/PVC        | S7                       | 30281915                                |
| 1 mol/l KNO <sub>3</sub>            | Polymer       | 120/ 12                     | POM/PVC        | S7                       | 30281915                                |
| –                                   | Polymer       | 120/ 12                     | PPS            | S7                       | 30281915                                |

Membrane kits for half-cells

| Description                       | Item No  |
|-----------------------------------|----------|
| Membrane kit for lithium ISE*     | 51107687 |
| Membrane kit for ammonium ISE *   | 51340012 |
| Membrane kit for fluoride ISE*    | 51340008 |
| Membrane kit for cyanide ISE*     | 51107695 |
| Membrane kit for sulfide ISE*     | 51107689 |
| Membrane kit for chloride ISE*    | 51340007 |
| Membrane kit for potassium ISE*   | 51340010 |
| Membrane kit for calcium ISE*     | 51340009 |
| Membrane kit for thiocyanate ISE* | 51107871 |

\* 1 membrane + electrolyte

Combined electrodes (PerfectION™)

Robust combined ion selective sensors

A PerfectION™ combined ion selective probe enables precision – no additional reference electrode required. The low-maintenance design helps to ensure a long lifetime, making these ion selective electrodes ideal for almost any application. An attached cable with either a BNC or LEMO plug ensures fast, secure connection to the instrument.

Ion-Selective Electrodes

| Description                          | Item No  | Measuring range   | Temperature range (°C) | Optimal pH range | Reference system (pH, ORP), cell constant (cond) |
|--------------------------------------|----------|-------------------|------------------------|------------------|--------------------------------------------------|
| Silver/Sulfide (Ag/S) electrode      | 51344700 | 1e0...1e-7 mol/l  | 0...80                 | 2...12           | Ag/AgCl                                          |
| Silver/Sulfide (Ag/S) electrode Lemo | 51344800 | 1e0...1e-7 mol/l  | 0...80                 | 2...12           | Ag/AgCl                                          |
| Calcium (Ca) electrode               | 51344703 | 1e0...5e-7 mol/l  | 0...40                 | 2,5...11         | Ag/AgCl                                          |
| Calcium (Ca) electrode Lemo          | 51344803 | 1e0...5e-7 mol/l  | 0...40                 | 2,5...11         | Ag/AgCl                                          |
| Chloride (Cl) electrode              | 51344706 | 1e0...5e-5 mol/l  | 0...80                 | 2...12           | Ag/AgCl                                          |
| Chloride (Cl) electrode Lemo         | 51344806 | 1e0...5e-5 mol/l  | 0...80                 | 2...12           | Ag/AgCl                                          |
| Cyanide (CN) electrode               | 51344709 | 1e-2...8e-6 mol/l | 0...80                 | 10...14          | Ag/AgCl                                          |
| Cyanide (CN) electrode Lemo          | 51344809 | 1e-2...8e-6 mol/l | 0...80                 | 10...14          | Ag/AgCl                                          |
| Cupric (Cu) electrode                | 51344712 | 1e-1...8e-6 mol/l | 0...80                 | 2...12           | Ag/AgCl                                          |
| Cupric (Cu) electrode Lemo           | 51344812 | 1e-1...8e-6 mol/l | 0...80                 | 2...12           | Ag/AgCl                                          |

| Description                                              | Item No  |
|----------------------------------------------------------|----------|
| Membrane kit for nitrate ISE*                            | 51340011 |
| Membrane kit for copper ISE*                             | 51107692 |
| Membrane kit for bromide ISE*                            | 51340006 |
| Membrane kit for fluoroborate ISE*                       | 51107690 |
| Membrane kit for cadmium ISE*                            | 51107686 |
| Membrane kit for iodide ISE*                             | 51107694 |
| Membrane kit for barium ISE*                             | 51107688 |
| Membrane kit for lead ISE*                               | 51107874 |
| Membrane kit for GSE ammonia (3 membranes + electrolyte) | 51340013 |



| Reference junction | Electrolyte for reference electrode | Membrane type | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections | Additional cable needed (for MT meters) |
|--------------------|-------------------------------------|---------------|-----------------------------|----------------|--------------------------|-----------------------------------------|
| Click & Clear™     | Ion electrolyt B                    | Solid state   | 120/ 12                     | Epoxy          | 1,2 m /BNC               | –                                       |
| Click & Clear™     | Ion electrolyt B                    | Solid state   | 120/ 12                     | Epoxy          | 1,2 m /Lemo              | –                                       |
| Click & Clear™     | Ion electrolyt A                    | Polymer       | 120/ 12                     | Epoxy          | 1,2 m /BNC               | –                                       |
| Click & Clear™     | Ion electrolyt A                    | Polymer       | 120/ 12                     | Epoxy          | 1,2 m /Lemo              | –                                       |
| Click & Clear™     | Ion electrolyt B                    | Solid state   | 120/ 12                     | Epoxy          | 1,2 m /BNC               | –                                       |
| Click & Clear™     | Ion electrolyt B                    | Solid state   | 120/ 12                     | Epoxy          | 1,2 m /Lemo              | –                                       |
| Click & Clear™     | Ion electrolyt B                    | Solid state   | 120/ 12                     | Epoxy          | 1,2 m /BNC               | –                                       |
| Click & Clear™     | Ion electrolyt B                    | Solid state   | 120/ 12                     | Epoxy          | 1,2 m /Lemo              | –                                       |
| Click & Clear™     | Ion electrolyt D                    | Solid state   | 120/ 12                     | Epoxy          | 1,2 m /BNC               | –                                       |
| Click & Clear™     | Ion electrolyt D                    | Solid state   | 120/ 12                     | Epoxy          | 1,2 m /Lemo              | –                                       |

| Description                               | Item No  | Measuring range        | Temperature range (°C) | Optimal pH range | Reference system (pH, ORP), cell constant (cond) |
|-------------------------------------------|----------|------------------------|------------------------|------------------|--------------------------------------------------|
| Fluoride (F) electrode                    | 51344715 | saturated...1e-6 mol/l | 0...80                 | 4,5...5,5        | Ag/AgCl                                          |
| Fluoride (F) electrode                    | 51344815 | saturated...1e-6 mol/l | 0...80                 | 4,5...5,5        | Ag/AgCl                                          |
| Iodide (I) electrode                      | 51344718 | 1e0...5e-8 mol/l       | 0...80                 | 0...12           | Ag/AgCl                                          |
| Iodide (I) electrode Lemo                 | 51344818 | 1e0...5e-8 mol/l       | 0...80                 | 0...12           | Ag/AgCl                                          |
| Potassium (K) electrode                   | 51344721 | 1e0...1e-6 mol/l       | 0...40                 | 2,5...11         | Ag/AgCl                                          |
| Potassium (K) electrode Lemo              | 51344821 | 1e0...1e-6 mol/l       | 0...40                 | 2,5...11         | Ag/AgCl                                          |
| Sodium (Na) electrode                     | 51344724 | 1e0...1e-7 mol/l       | 0...80                 | 8...11           | ARGENTHAL™                                       |
| Nitrate (NO <sub>3</sub> ) electrode      | 51344727 | 1e0...7e-6 mol/l       | 0...40                 | 2,5...11         | Ag/AgCl                                          |
| Nitrate (NO <sub>3</sub> ) electrode Lemo | 51344827 | 1e0...7e-6 mol/l       | 0...40                 | 2,5...11         | Ag/AgCl                                          |
| Lead (Pb) electrode                       | 51344730 | 1e-1...1e-6 mol/l      | 0...80                 | 4...7            | Ag/AgCl                                          |
| Lead (Pb) electrode Lemo                  | 51344830 | 1e-1...1e-6 mol/l      | 0...80                 | 4...7            | Ag/AgCl                                          |

| Reference junction | Electrolyte for reference electrode | Membrane type | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections | Additional cable needed (for MT meters) |
|--------------------|-------------------------------------|---------------|-----------------------------|----------------|--------------------------|-----------------------------------------|
| Click & Clear™     | Ion electrolyt A                    | Solid state   | 120/12                      | Epoxy          | 1,2 m /BNC               | –                                       |
| Click & Clear™     | Ion electrolyt A                    | Solid state   | 120/12                      | Epoxy          | 1,2 m /Lemo              | –                                       |
| Click & Clear™     | Ion electrolyt D                    | Solid state   | 120/12                      | Epoxy          | 1,2 m /BNC               | –                                       |
| Click & Clear™     | Ion electrolyt D                    | Solid state   | 120/12                      | Epoxy          | 1,2 m /Lemo              | –                                       |
| Click & Clear™     | Ion electrolyt E                    | Polymer       | 120/12                      | Epoxy          | 1,2 m /BNC               | –                                       |
| Click & Clear™     | Ion electrolyt E                    | Polymer       | 120/12                      | Epoxy          | 1,2 m /Lemo              | –                                       |
| Ceramic            | 3 mol/l KCl                         | Na-Glass      | 120/12                      | Glass          | S7                       | 30281915                                |
| Click & Clear™     | Ion electrolyt F                    | Polymer       | 120/12                      | Epoxy          | 1,2 m /BNC               | –                                       |
| Click & Clear™     | Ion electrolyt F                    | Polymer       | 120/12                      | Epoxy          | 1,2 m /Lemo              | –                                       |
| Click & Clear™     | Ion electrolyt B                    | Solid state   | 120/12                      | Epoxy          | 1,2 m /BNC               | –                                       |
| Click & Clear™     | Ion electrolyt B                    | Solid state   | 120/12                      | Epoxy          | 1,2 m /BNC               | –                                       |

# InLab® Sensors (Professional Line)

## The right DO electrode for your application

### Optical dissolved oxygen electrodes

Our InLab® OptiOx DO sensors use RDO® (Rugged Dissolved Oxygen) technology, which simplifies your optical DO measurements. This means no sample oxygen is consumed during measurement, creating a fast, stable system that requires little maintenance. You achieve reproducible results without stirring, while accessories such as snap on stainless-steel guards mean worry-free measurements in challenging environments. InLab® OptiOx is also an excellent dissolved oxygen electrode choice for applications that require measurement of BOD (biological oxygen demand).

### Polarographic dissolved oxygen electrodes

Designed for harsh environments and applications where optical measurements are not an option, METTLER TOLEDO polarographic dissolved oxygen electrodes are equipped with a reinforced fiberglass shaft. These extremely robust DO electrodes also feature a highly permeable membrane to ensure accurate dissolved oxygen measurements.

## Optical sensors

|                                                                                    | Description       | Item No  | Measuring range        | Temperature range (°C) | Intelligent Sensor Management (ISM®) |
|------------------------------------------------------------------------------------|-------------------|----------|------------------------|------------------------|--------------------------------------|
|    | InLab® OptiOx     | 51344621 | 0...500 ‰, 0...50 mg/l | 0...50                 | •                                    |
|  | InLab® OptiOx-5m  | 51344622 | 0...500 ‰, 0...50 mg/l | 0...50                 | •                                    |
|  | InLab® OptiOx-10m | 51344623 | 0...500 ‰, 0...50 mg/l | 0...50                 | •                                    |

## Polarographic sensors

|                                                                                    | Description        | Item No  | Measuring range        | Temperature range (°C) | Intelligent Sensor Management (ISM®) |
|------------------------------------------------------------------------------------|--------------------|----------|------------------------|------------------------|--------------------------------------|
|  | InLab® 605         | 51340291 | 0...200 ‰, 0...20 mg/l | 0...60                 | –                                    |
|  | InLab® 605/10m     | 51340292 | 0...200 ‰, 0...20 mg/l | 0...60                 | –                                    |
|  | InLab® 605-ISM-2m  | 51344611 | 0...200 ‰, 0...20 mg/l | 0...60                 | •                                    |
|  | InLab® 605-ISM-5m  | 51344612 | 0...200 ‰, 0...20 mg/l | 0...60                 | •                                    |
|  | InLab® 605-ISM-10m | 51344613 | 0...200 ‰, 0...20 mg/l | 0...60                 | •                                    |



| Digital sensor | Fulfills IP67 | Temperature probe | Cell type | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections |
|----------------|---------------|-------------------|-----------|-----------------------------|----------------|--------------------------|
| •              | •             | NTC30kΩ           | optic     | 65/16                       | PC/ABS         | 1,8 m/Mini-LTW (IP67)    |
| •              | •             | NTC30kΩ           | optic     | 65/16                       | PC/ABS         | 5,0 m/Mini-LTW (IP67)    |
| •              | •             | NTC30kΩ           | optic     | 65/16                       | PC/ABS         | 10,0 m/Mini-LTW (IP67)   |

| Fulfills IP67 | Temperature probe | Cell type     | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections        |
|---------------|-------------------|---------------|-----------------------------|----------------|---------------------------------|
| •             | NTC22kΩ           | polarographic | 120/12                      | PPS            | 1,8 m/BNC (IP67) & RCA (Cinch)  |
| •             | NTC22kΩ           | polarographic | 120/12                      | PPS            | 10,0 m/BNC (IP67) & RCA (Cinch) |
| •             | NTC22kΩ           | polarographic | 120/12                      | PPS            | 1,8 m/BNC (IP67) & RCA (Cinch)  |
| •             | NTC22kΩ           | polarographic | 120/12                      | PPS            | 5,0 m/BNC (IP67) & RCA (Cinch)  |
| •             | NTC22kΩ           | polarographic | 120/12                      | PPS            | 10,0 m/BNC (IP67) & RCA (Cinch) |

# LE Electrodes (Entry-Level Line)

**Ease of use**  
The well thought trough construction is designed for easy handling and low maintenance.

**Tried and trusted**  
High quality membrane glass and well-established technologies ensure reliable results.

**Perfect match**  
Dedicated sensors for FiveEasy™ and FiveGo™; compatible with all standard pH meters with BNC connectors and ideal for standard applications.

|                                                                                  | Description | Item No  | Measuring range | Temperature range (°C) | Fulfills IP67 |
|----------------------------------------------------------------------------------|-------------|----------|-----------------|------------------------|---------------|
|  | LE621       | 51340403 | 0...200 ‰       | 0...50                 | –             |
|  | LE621 IP67* | 30266975 | 0...200 ‰       | 0...50                 | •             |

\* for portable F4 FiveGo™ meter

# Temperature Probes

**Always the right temperature**  
The integrated temperature probe guarantees you always measure with the right temperature compensation.

| Description    | Item No  | Temperature range (°C) | Temperature probe | Shaft length/ diameter (mm) |
|----------------|----------|------------------------|-------------------|-----------------------------|
| NTC30kΩ        | 51300164 | –30...100              | NTC30kΩ           | 120/4                       |
| Pt1000         | 51300165 | –30...100              | Pt1000            | 120/4                       |
| InLab® NTC30kΩ | 51343310 | –30...130              | NTC30kΩ           | 120/12                      |
| InLab® Pt1000  | 51343312 | –30...130              | Pt1000            | 120/12                      |



| Temperature probe | Cell type | Shaft length/ diameter (mm) | Shaft material | Fixed cable/ connections       |
|-------------------|-----------|-----------------------------|----------------|--------------------------------|
| NTC30kΩ           | galvanic  | 120/12                      | PVC            | 1,1 m/BNC & RCA (Cinch)        |
| NTC30kΩ           | galvanic  | 120/12                      | PVC            | 1,1 m/BNC (IP67) & RCA (Cinch) |

| Shaft material      | Fixed cable/ connections | Additional cable needed (for MT meters) | Quality certificate |
|---------------------|--------------------------|-----------------------------------------|---------------------|
| Stainless Steel 316 | 1,2 m/RCA (Cinch)        | –                                       | –                   |
| Stainless Steel 316 | 1,2 m/4 mm               | –                                       | –                   |
| Glass               | S7                       | 30281924                                | •                   |
| Glass               | S7                       | 30281924                                | •                   |



# Sensor Cables

## Plug and Play

METTLER TOLEDO provides a complete range of electrode cables to interface our sensors to almost any meter. Save money and preserve the environment. Detachable cables can be reused when the pH sensor has reached its end of life.



| Item No  | Description                              |
|----------|------------------------------------------|
| 30281896 | InLab® cable MultiPin-BNC/RCA 1,2 m      |
| 30281897 | InLab® cable MultiPin-BNC/RCA 3 m        |
| 30281898 | InLab® cable MultiPin-BNC/RCA 5 m        |
| 30281899 | InLab® cable MultiPin-BNC/4 mm 1,2 m     |
| 30281910 | InLab® cable MultiPin-DIN/RCA 1,2 m      |
| 30281911 | InLab® cable MultiPin-DIN/4 mm 1,2 m     |
| 30281913 | InLab® cable MultiPin-BNC/RCA 1,8 m IP67 |
| 30281915 | InLab® cable S7-BNC 1,2 m                |
| 30281916 | InLab® cable S7-BNC 3 m                  |
| 30281917 | InLab® cable S7-BNC 5 m                  |
| 30281918 | InLab® cable S7-BNC IP67 1,2 m           |
| 30281919 | InLab® cable S7-DIN 1,2 m                |
| 30281920 | InLab® cable S7-DIN 3 m                  |
| 30281921 | InLab® cable S7-DIN 5 m                  |
| 30281922 | InLab® cable S7-4mm 1,2 m                |
| 30281923 | InLab® cable S7-2mm 1,2 m                |
| 30281924 | InLab® cable S7-RCA 1,2 m                |
| 30281925 | InLab® cable S7-Lemo 00 1,2 m            |
| 30281926 | InLab® cable S7-no connector 3 m         |
| 30281927 | InLab® cable S7-no connector 5 m         |
| 30281928 | InLab® cable S7-no connector 10 m        |
| 30403890 | DIN adapter LE                           |
| 30499900 | DIN adapter T-kit LE                     |

# Sensor Accessories

## The right accessory – extended possibilities

METTLER TOLEDO provides a complete offering of electrode accessories including wetting caps, adapters, flow through cells and electrode fill port closures.



| Item No  | Description                                                |
|----------|------------------------------------------------------------|
| 51340021 | Wetting caps 8 mm                                          |
| 51340024 | Adapter NS 14/ 15 12 mm                                    |
| 51343320 | Electrode storage vial                                     |
| 59904354 | Thermostatable Flow through cell for U402-611-S7/40        |
| 51302257 | Glass flow-through cell                                    |
| 51344630 | OptiOx replacement Cap                                     |
| 51344631 | OptiOx calibration Tube                                    |
| 51344632 | OptiOx protective Guard                                    |
| 51344633 | OptiOx BOD Adapter                                         |
| 30246619 | OptiOx Adapter for uPlace™                                 |
| 51340295 | Sealing Kit InLab® 605                                     |
| 30247853 | Knick adapter                                              |
| 30243851 | Wetting cap InLab® 12 mm                                   |
| 30248827 | SafeLock blue (5 pcs.)                                     |
| 30248829 | SafeLock white (5 pcs.)                                    |
| 51340267 | Replacement Junction Tool for InLab® Versatile Pro         |
| 51340268 | Set of Replaceable Junctions (set of 10 ceramic junctions) |
| 30014098 | Flow-Cell for InLab® Trace                                 |

# Technical pH Buffers

## Reliable all-rounders

All METTLER TOLEDO’s pH buffers are traceable to certified reference buffer solutions according to IUPAC recommendations 2002. The quality inspection certificate, available for every bottle and sachet, guarantees the stated values and traceability.

| Item No  | Description          | pH value         | Type of packaging | Volume | Total volume |
|----------|----------------------|------------------|-------------------|--------|--------------|
| 51350002 | Technical buffer     | pH 2,00          | 1 bottle          | 250 ml | 250 ml       |
| 51350016 | Technical buffer     | pH 2,00          | 6 bottles         | 250 ml | 1,5 l        |
| 30111134 | Technical buffer     | pH 2,00          | 30 sachets        | 20 ml  | 600 ml       |
| 51350004 | Technical buffer     | pH 4,01          | 1 bottle          | 250 ml | 250 ml       |
| 51350018 | Technical buffer     | pH 4,01          | 6 bottles         | 250 ml | 1,5 l        |
| 51302069 | Technical buffer     | pH 4,01          | 30 sachets        | 20 ml  | 600 ml       |
| 30464188 | Technical buffer     | pH 5,00          | 1 bottle          | 250 ml | 250 ml       |
| 51350006 | Technical buffer     | pH 7,00          | 1 bottle          | 250 ml | 250 ml       |
| 51350020 | Technical buffer     | pH 7,00          | 6 bottles         | 250 ml | 1,5 l        |
| 51302047 | Technical buffer     | pH 7,00          | 30 sachets        | 20 ml  | 600 ml       |
| 30464189 | Technical buffer     | pH 8,00          | 1 bottle          | 250 ml | 250 ml       |
| 51350008 | Technical buffer     | pH 9,21          | 1 bottle          | 250 ml | 250 ml       |
| 51350022 | Technical buffer     | pH 9,21          | 6 bottles         | 250 ml | 1,5 l        |
| 51302070 | Technical buffer     | pH 9,21          | 30 sachets        | 20 ml  | 600 ml       |
| 51350010 | Technical buffer     | pH 10,00         | 1 bottle          | 250 ml | 250 ml       |
| 51350024 | Technical buffer     | pH 10,00         | 6 bottles         | 250 ml | 1,5 l        |
| 51302079 | Technical buffer     | pH 10,01         | 30 sachets        | 20 ml  | 600 ml       |
| 51350012 | Technical buffer     | pH 11,00         | 1 bottle          | 250 ml | 250 ml       |
| 51350026 | Technical buffer     | pH 11,00         | 6 bottles         | 250 ml | 1,5 l        |
| 30111135 | Technical buffer     | pH 11,00         | 30 sachets        | 20 ml  | 600 ml       |
| 51302068 | Rainbow sachets I    | pH 4,01          | 10 sachets        | 20 ml  | 200 ml       |
|          |                      | pH 7,00          | 10 sachets        | 20 ml  | 200 ml       |
|          |                      | pH 9,21          | 10 sachets        | 20 ml  | 200 ml       |
| 51302080 | Rainbow sachets II   | pH 4,01          | 10 sachets        | 20 ml  | 200 ml       |
|          |                      | pH 7,00          | 10 sachets        | 20 ml  | 200 ml       |
|          |                      | pH 10,01         | 10 sachets        | 20 ml  | 200 ml       |
| 30095312 | Bottle Rainbow kit 1 | pH 4,01          | 2 bottles         | 250 ml | 100 ml       |
|          |                      | pH 7,00          | 2 bottles         | 250 ml | 500 ml       |
|          |                      | pH 9,21          | 2 bottles         | 250 ml | 500 ml       |
| 30095313 | Bottle Rainbow kit 2 | pH 4,01          | 2 bottles         | 250 ml | 500 ml       |
|          |                      | pH 7,00          | 2 bottles         | 250 ml | 500 ml       |
|          |                      | pH 10,00         | 2 bottles         | 250 ml | 500 ml       |
| 30095314 | All-in-One Kit 1     | pH 4,01          | 1 bottle          | 250 ml | 250 ml       |
|          |                      | pH 7,00          | 1 bottle          | 250 ml | 250 ml       |
|          |                      | pH 9,21          | 1 bottle          | 250 ml | 250 ml       |
|          |                      | 3M KCl           | 1 bottle          | 250 ml | 250 ml       |
|          |                      | Pepsin-HCl       | 1 bottle          | 250 ml | 250 ml       |
|          |                      | Storage solution | 1 bottle          | 250 ml | 250 ml       |
| 30095315 | All-in-One Kit 2     | pH 4,01          | 1 bottle          | 250 ml | 250 ml       |
|          |                      | pH 7,00          | 1 bottle          | 250 ml | 250 ml       |
|          |                      | pH 10,00         | 1 bottle          | 250 ml | 250 ml       |
|          |                      | 3M KCl           | 1 bottle          | 250 ml | 250 ml       |
|          |                      | Pepsin-HCl       | 1 bottle          | 250 ml | 250 ml       |
|          |                      | Storage solution | 1 bottle          | 250 ml | 250 ml       |



# Certified pH Calibration Buffers

## Measured according to ISO/IEC 17025: DAkkS certified buffers

The pH value of METTLER TOLEDO’s certified buffers is verified according to ISO/IEC 17025 by a DAkkS (Deutsche Akkreditierungsstelle, German Accreditation Body) accredited laboratory. They are therefore the perfect choice for regulated industries.

| Item No  | Description      | pH value | Type of packaging | Volume | Total volume |
|----------|------------------|----------|-------------------|--------|--------------|
| 51350032 | Certified buffer | pH 4,01  | 1 bottle          | 250 ml | 250 ml       |
| 51350042 | Certified buffer | pH 4,01  | 6 bottles         | 250 ml | 1,5 l        |
| 51350034 | Certified buffer | pH 7,00  | 1 bottle          | 250 ml | 250 ml       |
| 51350044 | Certified buffer | pH 7,00  | 6 bottles         | 250 ml | 1,5 l        |
| 51350036 | Certified buffer | pH 9,21  | 1 bottle          | 250 ml | 250 ml       |
| 51350046 | Certified buffer | pH 9,21  | 6 bottles         | 250 ml | 1,5 l        |
| 51350038 | Certified buffer | pH 10,00 | 1 bottle          | 250 ml | 250 ml       |
| 51350048 | Certified buffer | pH 10,00 | 6 bottles         | 250 ml | 1,5 l        |



# NIST/DIN pH Calibration Buffers

## Top accuracy

The NIST/DIN pH buffers are manufactured according to DIN/ISO 19266. They are specified to three decimal places, e.g. 9,180, offering the lowest possible uncertainty. A detailed test certificate is available for every bottle and guarantees the stated values and traceability.

| Item No  | Description     | pH value  | Type of packaging | Volume | Total volume |
|----------|-----------------|-----------|-------------------|--------|--------------|
| 30458274 | NIST/DIN buffer | pH 1,679  | 1 bottle          | 250 ml | 250 ml       |
| 30667828 | NIST/DIN buffer | pH 1,679  | 30 sachets        | 20 ml  | 600 ml       |
| 51350052 | NIST/DIN buffer | pH 4,006  | 1 bottle          | 250 ml | 250 ml       |
| 30111136 | NIST/DIN buffer | pH 4,006  | 30 sachets        | 20 ml  | 600 ml       |
| 51350054 | NIST/DIN buffer | pH 6,865  | 1 bottle          | 250 ml | 250 ml       |
| 30111137 | NIST/DIN buffer | pH 6,865  | 30 sachets        | 20 ml  | 600 ml       |
| 51350056 | NIST/DIN buffer | pH 9,180  | 1 bottle          | 250 ml | 250 ml       |
| 30111138 | NIST/DIN buffer | pH 9,180  | 30 sachets        | 20 ml  | 600 ml       |
| 51350058 | NIST/DIN buffer | pH 10,012 | 1 bottle          | 250 ml | 250 ml       |
| 30111139 | NIST/DIN buffer | pH 10,012 | 30 sachets        | 20 ml  | 600 ml       |
| 30464127 | NIST/DIN buffer | pH 12,454 | 1 bottle          | 250 ml | 250 ml       |



# Electrolytes

## pH electrolytes ensure accuracy

Thanks to the ARGENTHAL™ reference system most METTLER TOLEDO pH sensors are filled with 3 mol/l KCl electrolyte solution. There is no longer a risk of contaminating your samples with silver ions. For measurements in non-aqueous samples or samples with low ionic strength a special bridge electrolyte is needed. Always make sure that your sensor is completely filled with clean electrolyte solution.



## Reference electrolytes

| Item No  | Description                       | Type of packaging | Volume | Total volume |
|----------|-----------------------------------|-------------------|--------|--------------|
| 51343180 | KCl 3M electrolyte                | 1 bottle          | 25 ml  | 25 ml        |
| 51350072 | KCl 3M electrolyte                | 1 bottle          | 250 ml | 250 ml       |
| 51350080 | KCl 3M electrolyte                | 6 bottles         | 250 ml | 1,5 l        |
| 51343184 | KCl Sat AgCl electrolyte          | 1 bottle          | 25 ml  | 25 ml        |
| 51350074 | KCl Sat AgCl electrolyte          | 1 bottle          | 250 ml | 250 ml       |
| 51350082 | KCl Sat AgCl electrolyte          | 6 bottles         | 250 ml | 1,5 l        |
| 51343185 | FRISCOLYT-B electrolyte           | 1 bottle          | 25 ml  | 25 ml        |
| 51350076 | FRISCOLYT-B electrolyte           | 1 bottle          | 250 ml | 250 ml       |
| 51350084 | FRISCOLYT-B electrolyte           | 6 bottles         | 250 ml | 1,5 l        |
| 51350088 | LiCl 1M/EtOH electrolyte, 6×30 ml | 6 bottles         | 25 ml  | 150 ml       |

## Bridge electrolytes

| Item No  | Description                     | Type of packaging | Volume | Total volume |
|----------|---------------------------------|-------------------|--------|--------------|
| 51343182 | KNO <sub>3</sub> 1M electrolyte | 1 bottle          | 25 ml  | 25 ml        |
| 51350078 | KNO <sub>3</sub> 1M electrolyte | 1 bottle          | 250 ml | 250 ml       |
| 51350086 | KNO <sub>3</sub> 1M electrolyte | 6 bottles         | 250 ml | 1,5 l        |
| 51343180 | KCl 3M electrolyte              | 1 bottle          | 25 ml  | 25 ml        |
| 51350072 | KCl 3M electrolyte              | 1 bottle          | 250 ml | 250 ml       |
| 51350080 | KCl 3M electrolyte              | 6 bottles         | 250 ml | 1,5 l        |
| 51343181 | KCl 1M electrolyte              | 1 bottle          | 25 ml  | 25 ml        |

# Maintenance Solutions

## Maintenance solutions for peace of mind

Whenever rinsing with deionized water is not sufficient, a special cleaning solution can be used to remove sample residues. Depending on the contamination, Pepsin-HCl or Thiourea is recommended. The InLab® storage solution provides optimal conditions for sensors during the time between measurements, be it short- or long-term storage.



| Item No  | Description                  | Type of packaging | Volume | Total volume |
|----------|------------------------------|-------------------|--------|--------------|
| 51350100 | Cleaning solution Pepsin-HCl | 1 bottle          | 250 ml | 250 ml       |
| 30045061 | Cleaning solution Pepsin-HCl | 6 bottles         | 250 ml | 1,5 l        |
| 51350102 | Cleaning solution Thiourea   | 1 bottle          | 250 ml | 250 ml       |
| 30045062 | Cleaning solution Thiourea   | 6 bottles         | 250 ml | 1,5 l        |
| 51350104 | Regeneration solution        | 1 bottle          | 25 ml  | 25 ml        |
| 30111142 | InLab® storage solution      | 1 bottle          | 250 ml | 250 ml       |

# Low conductivity

## Low conductivity standards – the influence of air

Conductivity standards are directly affected by the presence of carbon dioxide (CO<sub>2</sub>) when in contact with air. Because of this, the lower conductivity standards have a limited lifespan. Measurements of samples with conductivity lower than 10 µS/cm need a special procedure, such as protection with inert gas or the usage of a flow cell. These standards are only intended for verification and not for calibration.



| Item No  | Description                 | Conductivity value | Type of packaging | Volume | Total volume |
|----------|-----------------------------|--------------------|-------------------|--------|--------------|
| 30090847 | Conductivity check solution | 1,3 µS             | 1 bottle          | 250 ml | 250 ml       |
| 30094617 | Conductivity standard       | 5 µS               | 1 bottle          | 250 ml | 250 ml       |
| 51300169 | Conductivity standard       | 10 µS              | 1 bottle          | 250 ml | 250 ml       |
| 51302153 | Conductivity standard       | 84 µS              | 1 bottle          | 250 ml | 250 ml       |
| 51300170 | Conductivity standard       | 500 µS             | 1 bottle          | 250 ml | 250 ml       |

# High conductivity

## To determine a cell constant, standards of higher conductivity should be used



| Item No  | Description           | Conductivity value | Type of packaging | Volume | Total volume |
|----------|-----------------------|--------------------|-------------------|--------|--------------|
| 51350092 | Conductivity standard | 1413 µS            | 1 bottle          | 250 ml | 250 ml       |
| 51350096 | Conductivity standard | 1413 µS            | 6 bottles         | 250 ml | 1,5 l        |
| 51302049 | Conductivity standard | 1413 µS            | 30 sachets        | 20 ml  | 600 ml       |
| 51350094 | Conductivity standard | 12,88 mS           | 1 bottle          | 250 ml | 250 ml       |
| 51350098 | Conductivity standard | 12,88 mS           | 6 bottles         | 250 ml | 1,5 l        |
| 51302050 | Conductivity standard | 12,88 mS           | 30 sachets        | 20 ml  | 600 ml       |

# Electrolytes for ISE Half-Cells

## Electrolytes for any application

It is important to fill the reference electrode of every ISE with the recommended electrolyte solution. The correct electrolyte will minimize junction potentials and provide optimum temperature and response time. The electrolyte must be refilled or replaced regularly in order to maintain good electrode performance.

| Item No  | Description                           | Type of packaging | Volume | Total volume |
|----------|---------------------------------------|-------------------|--------|--------------|
| 51107881 | Electrolyte for DX207-Li              | 1 bottle          | 20 ml  | 20 ml        |
| 51340035 | Electrolyte for DX218-NH <sub>4</sub> | 1 bottle          | 20 ml  | 20 ml        |
| 51340031 | Electrolyte for DX219-F               | 1 bottle          | 20 ml  | 20 ml        |
| 51107893 | Electrolyte for DX226-CN              | 1 bottle          | 20 ml  | 20 ml        |
| 51107894 | Electrolyte for DX232-S               | 1 bottle          | 20 ml  | 20 ml        |
| 51340030 | Electrolyte for DX235-Cl              | 1 bottle          | 20 ml  | 20 ml        |
| 51340033 | Electrolyte for DX239-K               | 1 bottle          | 20 ml  | 20 ml        |
| 51340032 | Electrolyte for DX240-Ca              | 1 bottle          | 20 ml  | 20 ml        |
| 51107872 | Electrolyte for DX258-SCN             | 1 bottle          | 20 ml  | 20 ml        |
| 51340034 | Electrolyte for DX262-NO <sub>3</sub> | 1 bottle          | 20 ml  | 20 ml        |
| 51107889 | Electrolyte for DX264-Cu              | 1 bottle          | 20 ml  | 20 ml        |
| 51340029 | Electrolyte for DX280-Br              | 1 bottle          | 20 ml  | 20 ml        |
| 51107890 | Electrolyte for DX287-BF <sub>4</sub> | 1 bottle          | 20 ml  | 20 ml        |
| 51107891 | Electrolyte for DX312-Cd              | 1 bottle          | 20 ml  | 20 ml        |
| 51107898 | Electrolyte for DX327-I               | 1 bottle          | 20 ml  | 20 ml        |
| 51107892 | Electrolyte for DX337-Ba              | 1 bottle          | 20 ml  | 20 ml        |
| 51107875 | Electrolyte for DX407-Pb              | 1 bottle          | 20 ml  | 20 ml        |
| 51340036 | Electrolyte for GSE NH <sub>3</sub>   | 1 bottle          | 25 ml  | 25 ml        |
| 51340037 | Electrolyte for GSE NOx               | 1 bottle          | 25 ml  | 25 ml        |
| 51340038 | Electrolyte for GSE CO <sub>2</sub>   | 1 bottle          | 25 ml  | 25 ml        |

# Electrolytes for PerfectION™ combined ISE

## Electrolytes for any application

It is important to fill the reference electrode of every ISE with the recommended electrolyte solution. The correct electrolyte will minimize junction potentials and provide optimum temperature and response time. The electrolyte must be refilled or replaced regularly in order to maintain good electrode performance.

| Item No  | Description                                                                | Type of packaging | Volume | Total volume |
|----------|----------------------------------------------------------------------------|-------------------|--------|--------------|
| 51344750 | Perfectlon Ion electrolyte A reference filling solution (Ca, F, S)         | 5 bottles         | 60 ml  | 300 ml       |
| 51344751 | Perfectlon Ion electrolyte B reference filling solution (Cl, CN, Pb, Ag/S) | 5 bottles         | 60 ml  | 300 ml       |
| 51344752 | Perfectlon Ion electrolyte C reference filling solution (Ag)               | 5 bottles         | 60 ml  | 300 ml       |

| Item No  | Description                                                                | Type of packaging | Volume | Total volume |
|----------|----------------------------------------------------------------------------|-------------------|--------|--------------|
| 51344753 | Perfection Ion electrolyte D reference filling solution (Cu, I)            | 5 bottles         | 60 ml  | 300 ml       |
| 51344754 | Perfection Ion electrolyte E reference filling solution (K)                | 5 bottles         | 60 ml  | 300 ml       |
| 51344755 | Perfection Ion electrolyte F reference filling solution (NO <sub>3</sub> ) | 5 bottles         | 60 ml  | 300 ml       |

## Ionic Strength Adjustors (ISA) for ISE Half-Cells

### Ionic strength adjustors for high repeatability

In all analytical procedures using an ISE, the correct amount of ISA (Ionic Strength Adjustor) must be added to all samples and standards prior to measurement or calibration. This solution ensures that samples and standards have similar and constant ionic strength. Instructions for type and amount of ISA can be found in the manual of every ISE. It is important to fill the reference electrode of every ISE with the recommended electrolyte solution. The correct electrolyte will minimize junction potentials and provide optimum temperature and response time. The electrolyte must be refilled or replaced regularly in order to maintain good electrode performance.

| Item No  | Description                                                                           | Type of packaging | Volume | Total volume |
|----------|---------------------------------------------------------------------------------------|-------------------|--------|--------------|
| 51350106 | TISAB 3, for fluoride determinations                                                  | 1 bottle          | 250 ml | 250 ml       |
| 51350108 | ISA Alu Sulfate Solution (0,9 mol/l Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ) | 1 bottle          | 250 ml | 250 ml       |

## Ionic Strength Adjustors (ISA) for perfectION™ combined ISE

### Ionic strength adjustors for high repeatability

In all analytical procedures using an ISE, the correct amount of ISA (Ionic Strength Adjustor) must be added to all samples and standards prior to measurement or calibration. This solution ensures that samples and standards have similar and constant ionic strength. Instructions for type and amount of ISA can be found in the manual of every ISE. It is important to fill the reference electrode of every ISE with the recommended electrolyte solution. The correct electrolyte will minimize junction potentials and provide optimum temperature and response time. The electrolyte must be refilled or replaced regularly in order to maintain good electrode performance. For more information please refer to the electrode manual.

| Item No  | Description                                     | Type of packaging | Volume  | Total volume |
|----------|-------------------------------------------------|-------------------|---------|--------------|
| 51344760 | ISA for solid state ISE (Ag, Cl, CN, Cu, I, Pb) | 1 bottle          | 475 ml  | 475 ml       |
| 51344761 | Calcium ISA                                     | 1 bottle          | 475 ml  | 475 ml       |
| 51344762 | Potassium ISA                                   | 1 bottle          | 475 ml  | 475 ml       |
| 51344763 | Nitrate ISA                                     | 1 bottle          | 475 ml  | 475 ml       |
| 51344764 | Nitrate ISS (for supressing interference)       | 1 bottle          | 475 ml  | 475 ml       |
| 51344765 | Fluoride TISAB II with CDTA                     | 1 bottle          | 3790 ml | 3790 ml      |
| 51344766 | Fluoride TISAB III with CDTA                    | 1 bottle          | 475 ml  | 475 ml       |

## Calibration Standards

### Ready to use ion calibration standards

High accuracy ion calibration standards can be ordered at concentrations of 10, 100 and 1000 mg/l (ppm). If a lower concentration is needed, it can easily be prepared with a serial dilution, as explained in the electrode manual.

| Item No  | Description  | Ion       | Value    | Type of packaging | Volume | Total volume |
|----------|--------------|-----------|----------|-------------------|--------|--------------|
| 30090859 | ISE standard | Ammonium  | 1000 ppm | 1 bottle          | 500 ml | 500 ml       |
| 30090860 | ISE standard | Ammonium  | 100 ppm  | 1 bottle          | 500 ml | 500 ml       |
| 51344771 | ISE standard | Calcium   | 1000 ppm | 1 bottle          | 500 ml | 500 ml       |
| 30090855 | ISE standard | Calcium   | 100 ppm  | 1 bottle          | 500 ml | 500 ml       |
| 30090856 | ISE standard | Calcium   | 10 ppm   | 1 bottle          | 500 ml | 500 ml       |
| 51344772 | ISE standard | Chloride  | 1000 ppm | 1 bottle          | 500 ml | 500 ml       |
| 30090853 | ISE standard | Chloride  | 100 ppm  | 1 bottle          | 500 ml | 500 ml       |
| 30090854 | ISE standard | Chloride  | 10 ppm   | 1 bottle          | 500 ml | 500 ml       |
| 51344774 | ISE standard | Copper    | 1000 ppm | 1 bottle          | 500 ml | 500 ml       |
| 51344775 | ISE standard | Fluoride  | 1000 ppm | 1 bottle          | 500 ml | 500 ml       |
| 30090851 | ISE standard | Fluoride  | 100 ppm  | 1 bottle          | 500 ml | 500 ml       |
| 30090852 | ISE standard | Fluoride  | 10 ppm   | 1 bottle          | 500 ml | 500 ml       |
| 51344776 | ISE standard | Iodide    | 1000 ppm | 1 bottle          | 500 ml | 500 ml       |
| 51344780 | ISE standard | Lead      | 1000 ppm | 1 bottle          | 500 ml | 500 ml       |
| 51344779 | ISE standard | Nitrate   | 1000 ppm | 1 bottle          | 500 ml | 500 ml       |
| 51344777 | ISE standard | Potassium | 1000 ppm | 1 bottle          | 500 ml | 500 ml       |
| 51344770 | ISE standard | Silver    | 1000 ppm | 1 bottle          | 500 ml | 500 ml       |
| 51344778 | ISE standard | Sodium    | 1000 ppm | 1 bottle          | 500 ml | 500 ml       |
| 30090857 | ISE standard | Sodium    | 100 ppm  | 1 bottle          | 500 ml | 500 ml       |
| 30090858 | ISE standard | Sodium    | 10 ppm   | 1 bottle          | 500 ml | 500 ml       |
| 51344781 | ISE standard | Sulfide   | 1000 ppm | 1 bottle          | 500 ml | 500 ml       |

# Redox Calibration Buffers

## Redox buffer solutions for verification purposes

Over time and with use, ORP sensors are affected by their environment. Verification with a laboratory ORP buffer can help to ensure precision and extend a sensor’s reliable operating life. Accurate and traceable METTLER TOLEDO ORP buffers enable accurate verification of redox sensors to help validate your measurement results. For maximum traceability, METTLER TOLEDO creates an individual test certificate for every lab ORP buffer batch manufactured. Ensuring your lab redox buffer is compliant is critical for validating ORP measurement results. Every Safety Data Sheet (SDS) and label for our laboratory ORP and redox buffers contains information according to the GHS (Global Harmonized System and Labeling of Chemicals) and is available in various languages.



| Item No  | Description  | Value          | Type of packaging | Volume | Total volume |
|----------|--------------|----------------|-------------------|--------|--------------|
| 51350060 | Redox buffer | 220 mV/pH 7,00 | 1 bottle          | 250 ml | 250 ml       |
| 51350062 | Redox buffer | 220 mV/pH 7,00 | 6 bottles         | 250 ml | 1,5 l        |
| 51350064 | Redox buffer | 468 mV/pH 0,1  | 6 bottles         | 30 ml  | 180 ml       |

# Dissolved Oxygen Solutions

## Zero oxygen tablets make the preparation of a solution with zero oxygen content easy

To ensure accurate measurements at low oxygen contents, DO sensors must be regularly conditioned and calibrated using a dissolved oxygen standard. Perform a two-point calibration when measuring at low oxygen levels using our quality zero oxygen tablets. Just dissolve the tablet in water, and the resulting solution can be used for calibration or verification so that you can produce reliable low-oxygen measurements.



| Item No  | Description                          |
|----------|--------------------------------------|
| 51300140 | DO zero oxygen tablets               |
| 51340294 | Electrolyte InLab® 605, 25 ml bottle |

# Dot matrix printers

- Print in your language**  
Print in the operating language of your connected METTLER TOLEDO instrument.
- Fast and reliably**  
Straightforward, untampered printing on standard paper or continuous label.
- Auto settings detection**  
The printer automatically detects the settings of the connected device. Thanks to this feature no manual setting changes are required.



| Item No  | Model      | Description                                                                                |
|----------|------------|--------------------------------------------------------------------------------------------|
| 30702967 | RS-P25/01  | Dot matrix printer with RS232C connection to instrument                                    |
| 30702998 | USB-P25/01 | Dot matrix printer with USB connection to instrument                                       |
| 11124303 | RS-P26/01  | Dot matrix printer with RS232C connection to instrument (with date and time)               |
| 11124304 | RS-P28/01  | Dot matrix printer with RS232C connection to instrument (with date, time and applications) |

## Accessories

| Item No  | Description                                         |
|----------|-----------------------------------------------------|
| 72456    | Paper roll (5 units)                                |
| 11600388 | Paper roll, self-adhesive, minimum order quantity 3 |
| 65975    | Ribbon cartridge black                              |
| 12120735 | Paper rotary axis                                   |
| 12120734 | Paper cover                                         |
| 12130716 | USB cable 1 m                                       |



RS-P28/01



RS-P26/01



RS-P25/01

# Thermal printers

## The all-in-one printer

Print on continuous paper, continuous self-adhesive labels or on individual labels with all sample information as well as barcodes.

## Noiseless speed

The state-of-the-art direct thermal printing technology in the P-56 and P-58 is clean, vibration-free and exceptionally quiet. It's also extremely fast, with a printout speed of up to 100 mm per second.

## Durable printouts

Under proper storage conditions, the non-adhesive fadeproof thermo paper will last up to 25 years, and the adhesive thermo paper up to 10. All papers are phenol-free and resistant to plasticizers, oil, fat and water.



| Item No  | Model   | Description                                                                                                       |
|----------|---------|-------------------------------------------------------------------------------------------------------------------|
| 30094673 | P-56RUE | Thermal printer with date/time, RS232, USB and Ethernet connection                                                |
| 30094674 | P-58RUE | Thermal printer with date/time, statistics, totaling, formulation and labeling RS232, USB and Ethernet connection |

## Accessories

| Item No  | Description                                        |
|----------|----------------------------------------------------|
| 30094723 | Thermal paper roll; 58 mm × Ø 50 mm; 10 pcs.       |
| 30094724 | Self-adhesive paper roll; 58 mm × Ø 50 mm; 10 pcs. |
| 30094725 | Self-adhesive labels; 56 mm × 18 mm; 6 pcs.        |
| 12130716 | USB cable 1 m                                      |



P-58RUE



P-56RUE



P-58RUE / P-56RUE

# Densito – Handheld Density Meter

## Analyse on the go

With an ergonomic design and light weight, the instrument fits nicely into your hand.

## Easy sampling

Measure comfortably using the joystick to control the automatic sampling pump, and avoid the added strain of manual sampling.

## Result limits

Set up a range of acceptable limits for your products: results outside this range are colour-coded for instant identification.



| Item No  | Model      | Description                                            | Product remarks                                                                                                                                                                                                                                |
|----------|------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 30330857 | Densito    | Portable density meter                                 | meter, filling tube 190 mm (tube, connector syringe/filling tube, washer), battery Li-Ion 2 400 mAh, power supply and worldwide adapters, USB-C cable, density standards 6 ml (3 pcs.), user manual, declaration of conformity and test report |
| 30330858 | DensitoPro | Portable density meter with an RFID and barcode reader | As Densito, but also with tag SmartSample™ (10 pcs.)                                                                                                                                                                                           |

## Accessories

| Item No  | Description                                                                      |
|----------|----------------------------------------------------------------------------------|
| 30451628 | EasyDirect™ Density and Refractometry                                            |
| 30330860 | Protective cover                                                                 |
| 30449268 | Tag SmartSample™, 10 pcs.                                                        |
| 30449269 | Tag SmartSample™ film for tanks, 10 pcs.                                         |
| 30330861 | Carrying case                                                                    |
| 30330863 | Bluetooth dongle                                                                 |
| 30330865 | Bluetooth printer paper, 5 rolls                                                 |
| 30702998 | USB-P25 printer                                                                  |
| 51191926 | USB cable (1,8 m A-B) replacement cable to connect Density2Go to printer         |
| 30330847 | Filling tube, 190 mm                                                             |
| 30330848 | Filling tube 600 mm                                                              |
| 51338100 | Syringes, 10 ml 100 pcs.                                                         |
| 51325003 | Cleaning tissues, set of 10                                                      |
| 30330849 | Piston pump and glass cylinder                                                   |
| 30330851 | Pump cap                                                                         |
| 30330852 | Locking screw                                                                    |
| 30330853 | Connector syringe/filling tube                                                   |
| 30330854 | Battery cap                                                                      |
| 30330855 | Battery Li-Ion 2 400 mAh                                                         |
| 30449253 | USB-C cable replacement cable to recharge Density2Go and to connect it to the PC |
| 30449255 | Power supply and worldwide adapters                                              |
| 30330842 | Charging stand, Densito                                                          |

Printer for Densito

| Item No  | Description                         |
|----------|-------------------------------------|
| 30330864 | Bluetooth printer godex with dongle |

Calibration standards

| Item No  | Description                                                           |
|----------|-----------------------------------------------------------------------|
| 51325005 | Density standards (6 ml), 10 pcs.                                     |
| 51338010 | Water density/refractive index combined standard (9 ml)               |
| 51338012 | Dodecane density/refractive index combined standard (9 ml)            |
| 51338013 | 2,4-dichlorotoluene density/refractive index combined standard (9 ml) |
| 51338014 | 1-bromonaphthalene density/refractive index combined standard (9 ml)  |

MyBrix – Handheld Refractometer

Measurements within seconds

The MyBrix measures refractive index and sugar content instantly and precisely: results are received within just two seconds in the desired scale.

Sugar determination anywhere

With its compact, robust and weatherproof design, measurements can be performed virtually anywhere – in the field, near the production line or in a quality control lab.

Brix and more

Results are automatically temperature compensated and converted into up to 3 of the 10 integrated sugar-related scales, including Brix, Oechsle, Baumé and many more.



| Item No  | Model  | Description                              | Product remarks                                                                                                |
|----------|--------|------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 30693200 | MyBrix | Handheld refractometer MyBrix            | MyBrix digital handeld refractometer, 2×AAA alkaline battery (LR03) and user manual                            |
| 30693201 | MyBrix | Handheld refractometer MyBrix pack of 10 | MyBrix digital handeld refractometer (10 pcs.), 2×AAA alkaline battery (LR03) (10 pcs.), user manual (10 pcs.) |

Accessories

| Item No  | Description          |
|----------|----------------------|
| 30693202 | Packaging box MyBrix |
| 30693215 | Soft case MyBrix     |

Refracto – Compact Portable Refractometers

Quick and error free

Place a few drops of sample on the cell, push the button, and read the final result with the temperature directly in the required measurement units!

An instrument on the go

Take measurements easily anywhere you go with our practical carrying cases.

Compliant data management

Store and keep track of up to 1100 results on your instrument, and print or transfer them to your PC.



| Item No  | Model         | Description        | Product remarks                                                                                                                                                               |
|----------|---------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 51324650 | REFRACTO 30PX | Refractometer 30PX | Portable refractometer/3,5 place precision, measuring range 1,32...1,50 nD/with a big selection of result units (Brix etc.)/complete with carry case and accessories          |
| 51324660 | REFRACTO 30GS | Refractometer 30GS | Portable high-end refractometer/3,5 place precision, measuring range 1,32...1,65 nD/with a big selection of result units (Brix etc.)/complete with carry case and accessories |

Accessories

| Item No  | Description                           |
|----------|---------------------------------------|
| 51324701 | Memo papers, set of 10                |
| 51324708 | Battery case cover with seal          |
| 51325000 | Carry case Density/Refracto           |
| 51325003 | Cleaning tissues, set of 10           |
| 51325006 | Infrared-adapter (RS 9 pin, male)     |
| 51324403 | Sampling tube (with washer)           |
| 30451628 | EasyDirect™ Density and Refractometry |
| 11124303 | Printer RS-P26                        |

Calibration standards

| Item No  | Description                                                           |
|----------|-----------------------------------------------------------------------|
| 51338010 | Water density/refractive index combined standard (9 ml)               |
| 51338012 | Dodecane density/refractive index combined standard (9 ml)            |
| 51338013 | 2,4-dichlorotoluene density/refractive index combined standard (9 ml) |
| 51338014 | 1-bromonaphthalene density/refractive index combined standard (9 ml)  |

<https://mton.store.mt.com/>

To place your order

**METTLER TOLEDO OnLine**

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