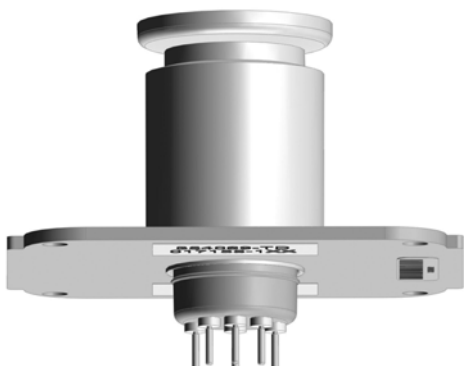


Installation and Operating Instructions for Catalog Number 354069–TD

**Gauge Handling**

The Micro-Ion® Gauge is double-packaged at the factory for cleanroom compatibility. After the cap plug has been removed, handle the gauge carefully to avoid damaging the vacuum port screen.

To reduce the chance of contamination, do not remove the gauge from its inner bag until you are ready to install the gauge.

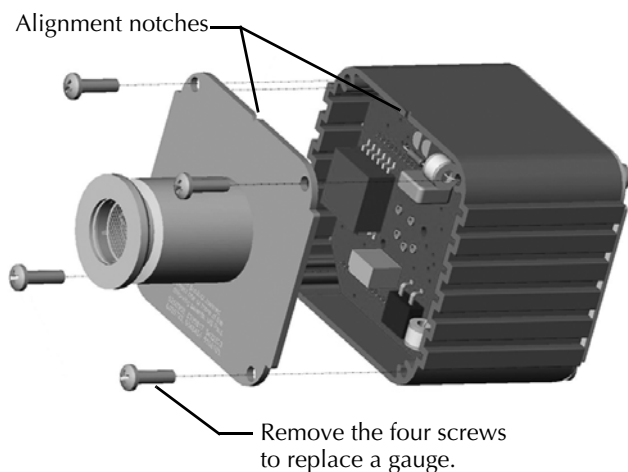
Avoid contaminating the Micro-Ion gauge. Do not touch the vacuum connection port. Follow good vacuum practice.

To minimize the possibility of leaks, avoid scratching the vacuum connection seal surfaces.

**WARNING**

Removing or replacing the gauge in a high-voltage environment can cause an electrical discharge through a gas or plasma, resulting in serious property damage or personal injury due to electrical shock or fire.

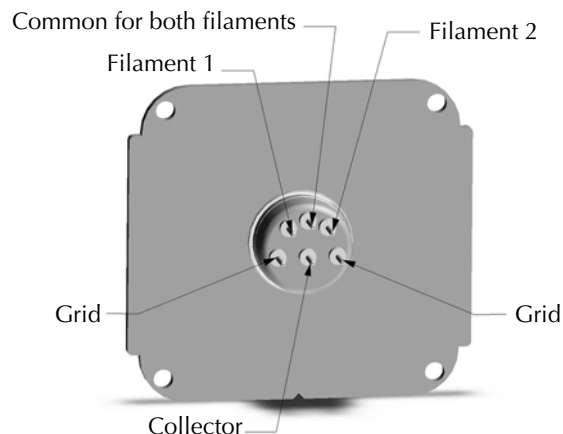
Vent the vacuum chamber to atmospheric pressure and shut off power to the module before you remove or replace the gauge.

**Removing the Existing Gauge**

1. To remove the existing gauge from the module, turn OFF power to the gauge and unplug the electrical connector.
2. Remove the module from the vacuum system.
3. Remove the four Phillips-head screws from the plate attached to the gauge.
4. Gently unplug the gauge from the module.

Inserting the New Gauge

1. Insert the new gauge by aligning the notch in the gauge collar plate with notch in the module body.
2. Gently insert the gauge pins into the socket on the circuit board.
3. Install and tighten the four Phillips-head screws.



Nominal operating parameters

Collector potential	0 V
Grid potential	+180 V
Filament potential	+30 V
Filament heating voltage	2.3 V maximum
Filament heating current	3 A maximum
Degas grid potential	+250 V
Emission current	0.1 mA or 4 mA, selectable
X-ray limit	$< 3 \times 10^{-10}$ Torr $< 4 \times 10^{-10}$ mbar $< 4 \times 10^{-8}$ Pa
N ₂ sensitivity	20 Torr ⁻¹ (nominal) 15 mbar ⁻¹ (nominal) 0.15 Pa ⁻¹ (nominal)



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Addendum
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