



Operating instruction for ama-digit ad 14th

07/04

Important! Please be sure to follow!

Please read this operating manual carefully. The warranty claim expires for damages caused by non observance of the operating manual or improper treatment. We do not assume liability for resultant damages.

Ama-digit ad 14 th is a fast responding digital thermometer for a variety of applications e.g. for use in laboratories, manufacturing or at home.

The especially thin stainless steel probe of V4A (1.4571) allows very fast temperature measurement of liquid, gaseous or plastic materials.

Function: The temperature measurement is carried out by the rear clipped temperature probe. During measurements of ambient temperatures the probe can stay in the fixture. During measurements in liquids, gaseous or plastic substances the probe has to be pulled out of the fixture. The thermometer is to switch on by the button ON/OFF.

Measurement in Fluids: The probe should be immersed about 30 mm into the liquid and depending on the material and the velocity of flow, the temperature can be read after a few seconds (please wait for the standstill of the indication in the display).

Measurements in gaseous Substances: (e.g. pollution protection) For measurements of ambient temperatures the probe should stand freely in the room. Air circulation (the instrument can also be moved) results in faster and more precise readings of the temperature. Please note that during standing air there can arise temperature differences of a few degree Celsius due to stratifications in rooms.

Measurement in plastic Substances: The probe should be immersed about 30 mm into the material. Please wait for the standstill of the indication in the display.

Important: During all measurements the distance between the handle of the probe and the heat source should be that large to prevent a damage of the handle. Maximum temperature limit 80°C.

Battery Check: Ama-digit ad 14 th is equipped with an automatic battery check, which avoids wrong readings due to weak or empty batteries. When the battery becomes empty, the display turns off automatically. The device can be reactivated for a couple of hours by switching it off for a short moment. This procedure can be repeated a few times, but the time periods will progressively become shorter. Finally the battery must be replaced.

Change of battery: The battery cover on the back of the instrument must be pushed downwards. Change the battery.

Instrument stand: The instrument can be used as bench model by means of a stand "S", which is to be inserted in an appropriate hole "A" above the battery box.

TECHNICAL DATA:

Measuring range: -35 ...500°C

Resolution: 1°C

Accuracy: +/-1°C or 1% of range (the larger value applies always)

Temperature sensor: Thermoelectric sensor NiCr-Ni, probe of stainless steel V4A (1.4571), 70 x 2,3 mm, plastic handle and PTFE-balance line approx. 400 x 2,2 mm

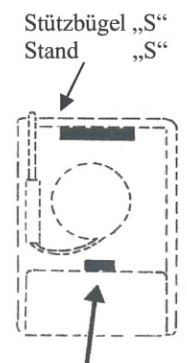
Battery: single block battery 6 F 22

Battery life: max. 2.000 hours

Operating temperature: 0...50°C

Casing: 90 x 60 x 25 mm

Time of Response T_{90} : about 2 seconds in moving water bath



Aussparung "A"
hole "A"

Warranty: We grant guarantee in the context of the legal regulations. Warranty is not valid in case of:
mechanical damage, run-down battery, damage overheating or any damage resulting from wrong handling.

Further claims are excluded.

We do not take over any liability for damage or resultant damage in connection with the use of this product.