

DT-1/2 user manual

Precise resistance digital thermometer




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DT-1 and DT-2 thermometers are intended for measuring temperatures in the range of -50°C to 270°C. The devices are equipped with a measurement probe containing PT 1000 sensor. Example usage: measuring the temperature in food industry, laboratories, refrigerators or cold rooms.

Available measurement probes for DT-1/DT-2 devices:

ST-05-S: probe length - 50 mm, lead length - 1 m, lead material – silicone, probe diameter 4 mm, maximum lead operating temperature up to 180°C.

ST-05-FEP: probe length - 50 mm, lead length - 1 m, lead material - FEP, probe diameter 4 mm, maximum lead operating temperature up to 205°C.

ST-05-PFA: probe length - 90 mm, lead length - 1 m, lead material - PFA, probe diameter 3.3 mm, maximum lead operating temperature up to 260°C.

Probe Type	Probe Temperature Range
ST-05-S	-30°C to 180°C
ST-05-FEP	-100°C to 205°C
ST-05-PFA	-100°C to 270°C

Turning on the device

To turn on/off the device, press the on/off button. When the device is turned on, the current temperature, will appear on the display.

HOLD Function

The HOLD function allows "freezing" the measured value and displaying it until the function is turned off. To activate/deactivate the function, press the „HOLD MIN/MAX" button.

MIN/MAX Function

The MIN/MAX function presents lowest and highest temperature registered since the device was turned on. To show this values the „HOLD MIN/MAX" button should be pressed twice to show „MIN" and three times to show „MAX" also after clicking, the icon of the shown temperature will appear at the left side of the screen. „MIN" indicates the lowest registered temperature and „MAX" highest registered temperature.

Reset MIN/MAX values.

To reset the minimum/maximum temperature displayed on the main screen, turn off and turn on the device.

WARRANTY CARD

It is necessary to present the following card for warranty repairs.

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SERIAL NUMBER

.....
TECHNICAL INSPECTION

.....
DATE OF SALE

.....
STAMP AND SIGNATURE



Calibration

DT-1/DT-2 thermometers are manufactured in accordance with the following standards: Directive 2006/42/EC, Directive 2014/35/EU, Directive 2014/30/EU, PN-EN ISO 12100:2012, PN-EN ISO 13857:2010, PN-EN 349+A1:2010, EN60335-1:2012, EN60335-2-40:2004/A2:2009, PN-EN 55014-1:2017-06, PN-EN 13486:2004. DT-1/DT-2 thermometers are calibrated using the reference thermometer DTI 1000, serial number 008954-01159, manufactured by Ametek Jofra Instruments, with a declaration of conformity to European Union standards. We declare that the DT-1/DT2 thermometers have been

Parameter	DT-1	DT-2
Measurement Range	-100°C to 270°C	-100°C to 270°C
Measurement Resolution	0.01	
Accuracy	±0.07°C (0°C to 100°C)	
Measuring Frequency	2 measurements per second	1 measurement per 15 seconds
Battery Life	Approximately hours of continuous operation	Approximately 8760 hours of continuous operation
Power Supply	1x lithium battery 3.6V (1 / 2AA) included	
Case Dimensions	45 mm × 100 mm × 19 mm	
Display	LCD	
Case Protection Rating	IP65	