

DT-34 user manual

Precise resistance digital thermometer




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DT-34 thermometer is intended for measuring temperatures in the range of -100°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-34 devices:
ST-01: probe length - 120 mm, lead length - 1 m, lead material – silicone, probe diameter 3.3 mm, maximum lead operating temperature up to 105°C.

ST-02: probe length - 120 mm, lead length - 1 m, lead material - FEP, probe diameter 3.5 mm, maximum lead operating temperature up to 105°C.

Probe Type	Probe Temperature Range
ST-01	-100°C to 270°C
ST-02	-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" button.

Battery change

When the battery is close to discharge, an „LOBAT" icon will appear on the screen. Its recommended to change battery as fast as the icon pops up, because the device can show wrong values. To change the battery remove two screws located on the back and pry the battery cover off, then replace the battery.

WARRANTY CARD

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

.....
SERIAL NUMBER

.....
TECHNICAL INSPECTION

.....
DATE OF SALE

.....
STAMP AND SIGNATURE



Calibration

DT-34 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-34 thermometer has been

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

Parameter	DT-34
Measurement Range	-100°C to 270°C
Measurement Resolution	0.1 ° C from -99.9 ° C to 199.9 ° C.; 1 ° C outside
Accuracy	±0.1°C(-49.9°C to 149.9 °C),
Measuring Frequency	2 measurements per second
Battery Life	Approximately 17000 hours
Power Supply	2xAA included
Case Dimensions	150 mm × 82 mm × 29 mm
Display	LCD
Case Protection Rating	IP65