

Precision thermometer
100-TP



Serial number:

Technical control:

Date of sale:

Point of sale's stamp and signature:

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PRECISION THERMOMETER 100-TP

OPERATING INSTRUCTION
GENERAL DESCRIPTION

Precision 100-PT Thermometer is designed for measuring temperatures ranging from -50 to 250°C. A 100-PT thermometer is a portable device for accurate temperature measuring, it functions together with a temperature probe equipped with a platinum precise Pt100 temperature sensor. In this type of a thermometer there is a highly-productive microprocessor used with a 24-bit precision analog-to-digital converter of sigma-delta type. The result of measuring is displayed on a 6-digit modern LCD display of a COG (chip on glass) type. To control and manage the device's power supply there is another microprocessor used. Thanks to these implementations a very high quality and accuracy of the device is achieved.

SPECIFICATIONS

temperature measuring range with ST01-1200 probe: -50°C to 250°C
 temperature measuring range with ST06 probe: -50°C to 500°C
 operating temperature range: 0°C to 40°C
 resolution: 0,1°C or 0,01°C switch
 accuracy: -/+0,03°C from -10°C to 100°C; -/+0,05°C 101°C to 150°C
 resistance measurement: 4-wire
 linearization: direct mathematic
 battery life: 100 h of constant work
 battery: 2xAA (alkaline batteries)
 display: 5-digit LCD
 dimensions: 150x82x29mm
 dust/water protection: IP65
 ST01-1200 probe size: 4x200mm
 ST06 probe size: 4x300mm
 probe's cable length: 1 m
 sensor's cover material: acid-resistant steel 1H18N9T

PRELIMINARY EXAMINATION

Remove the 100 TP from the packing box. Carefully examine thermometer to make sure that no damage has occurred during shipment. Notify to your dealer if there is any damage. 100 TP is supplied with battery and instructions.

OPERATION

100 TP is switched on by pressing ON/OFF button located on the front of the instrument. Insert the probe in the sample. Wait a few seconds for the display to stabilize, depending on the nature of the measurement that can take few second.

Remember: do NOT immerse the probe handle.

Do NOT wrench the probe or put heavy objects on the cable. If the cable is damaged, the meter needs to be replaced.

After use, always switch the meter off.

HOLD - Press the Hold button to capture the temperature reading. Reading will be flashing in the display. To resume taking the temperature press HOLD button again.

T/MAX - to display the maximum reading press and hold the T/MAX button. Max/Min readings are not saved so switching the thermometer off will clear the max/min readings.

T/MIN - to display the maximum reading press and hold the T/MIN button. Max/Min readings are not saved so switching the thermometer off will clear the max/min readings.

LIGHT - to backlight press and hold LIGHT button

RESOLUTION CHANGING - to change the resolution press 0,1/0,01 button

ERASE - to reset min/max temperature memory press T/MIN and HOLD button same time or T/MAX and 0,1/0,01 button same time.

BATTERY REPLACEMENT - when LO BAT appear on display replace the battery, using a 2xAA alkaline batteries. The battery is located under the battery cover at the rear of the instrument, remove the two screws, remove the battery cover and change the battery, paying attention to its polarity. Replace the cover and tighten the two screws.

EMC/RFI - if operated within a high frequency radio field instrument performance may be affected, example: near a mobile phone, or if subjected to an electrostatic shock.

WARRANTY

These meters are guaranteed for one year against defects in workmanship and materials when used for its intended purpose and maintained according to instructions. Probes are guaranteed for a period of six months. This warranty is limited to repair or replacement free of charge. The product guarantee does not cover damages caused by fair wear and tear, abnormal storage conditions, incorrect use, accidental misuse, abuse, neglect, misapplication or modification. If service is required, contact the dealer from whom you purchased the instrument. If under warranty, report the model number, date of purchase, serial number and the nature of the failure. If the repair is not covered by the warranty, you will be notified of the charges incurred. When shipping any instrument, make sure it is properly packaged for complete protection. In line with our policy of continuous development, we reserve the right to amend our product specification without prior notice.