

LDT 400

Portable desktop thermo-hygrometer with 2 channels, for the measurement of 2 temperatures or 1 temperature and 1 relative humidity. Assembled with 4-wire PT-100 probes with a configurable temperature range of -200.. 800°C. With an accuracy of 0.05 °C and a resolution of 0.01/ 0.001°C. Capacitive humidity probe, with 3%RH accuracy and resolution up to 0.01%RH. It has a 4.3" touch screen to display in real time both the temperature °C / F / % RH and Ohms, as well as maximum and minimum functions, difference between channel 1 and 2 and hold function and data recording. It is a device Easy to use and intuitive. The equipment allows quick calibrations with 5-point adjustment using the IEC 60751/ A2 standard. The equipment incorporates a rechargeable lithium battery, with an autonomy of up to 18 hours of continuous operation.



APPLICATIONS

Chemical / Pharmaceutical industry
Food industry
Laboratories and Hospitals

HIGHLIGHTS

Accuracy 0.05°C and Resolution 0.001°C
Calibration and adjustment PT-100 and RH
Data recording, trend graph
Difference, Max / Min, Hold functions
Easy and intuitive use
Large touch screen 4,3"
Compact size and light

General information

Large screen to simultaneously display actual temperature measurement in °C, F and % Relative humidity

Advanced functions, measurement in Ohms, difference, Max / Min, Hold. Graphic trend.

2 temperature measurement channels or 1 relative humidity channel .

Temperature accuracy 0.05°C and Resolution 0.01 / 0.001 °C. Humidity accuracy 3% RH (23°C) and resolution 0.1/0.01 %RH

Datalogging function with direct excell download by USB type C (Memory 128Mb)

Communication bus RS232 Modbus RTU (Communication port DB9)

Temperature adjustment by IEC 60751/ A2 standard. (5 Points). Humidity adjustment (5 Points).

Rechargeable lithium batteries with up to 18 hours of operation.

Technical Data

Temperature range	-200 ... 800°C
Resolution	0.01 / 0.001 °C // 0.1 / 0.01 %RH
Accuracy	0.05 °C / 3 % RH (23°C)
Operating temperature	0...50°C
Battery life	18 hours of continuous operation
Power Supply	Rechargeable lithium-ion battery (charger included)
Communication	RS232 Modbus RTU
Data recording	Selected from 1 to 360 sec. 128 Mb Download USB type C
Protection	IP54 (with 2 plugs connected)
Dimensions W x L x H (mm)	85 x 110 x 74
Weight (g)	450 g without PT100 probes or RH probe

Scope of delivery

Basic instrument LDT 400
Charger
1 year of warranty
Instruction Manual

Optional

Standard or special PT100 probes
Relative humidity probe range 0 ... 100% Rh
Certificate 3.1 in 2 points
ISO 17025 accredited certificate
Transport carry case
Din-6 FA Connector



Standard or special PT100 probes:

Type A probe: Pt100 4-wire class A, with handle, range -50 to 300°C,
125mm length, 4mm diameter, spiked sheath finish, 2m silicone cable, FA Din-6 connector

Type B probe: Pt100 4-wire class A, with handle, range -50 to 450°C,
200mm length, 4mm diameter, blunt sheath finish, 2m silicone cable, FA Din-6 connector

Type C probe: Pt100 4-wire class A, range -200 to 200°C,
100 mm long, 4mm diameter, blunt sheath finish, with spring, 2m silicone cable, FA Din-6 connector

Type D probe: Pt100 4-wire 1/10 class B, range -50 to 450 °C
300 mm long, 6 mm diameter, blunt sheath finish, with spring, 2 m Teflon cable, FA Din-6 connector

Type E Humidity probe: Capacitive HR Probe (range -20 ... 80°C)
130 mm long, 18.5 mm diameter, 2 m cable, FA Din-6 connector

