



Description

The laboratory electronic thermometer **LTA-N** can be utilized as a general-purpose precise thermometer for reading contact temperature measurements of non-aggressive liquid, granular, and gaseous media.

LTA-N provides an error of ± 0.05 °C in the temperature range from -50 to +300 °C.

The novel ergonomic design of the electronic unit allows it to be placed on a horizontal surface or securely fixed on vertical metal surfaces of laboratory furniture or sidewalls of baths using the built-in magnets.

Sensor Features

- Based on Pt100 thin film platinum element with custom calibration.
- Probe made of AISI 316 stainless steel.
- Besides 250 mm conventional sensor, stem lengths from 90 up to 550 mm are available.
- Connected directly or through an extension cable at ambient temperature up to +70 °C.

Features & Benefits

- Utilizing carefully selected temperature sensors and modern electronic components provides excellent accuracy and long-term stability of temperature measurement.
- The thermometer can record the measurement results to the internal memory; calculate the minimum, average, and maximum value of the measured temperature.
- A custom designed LCD provides a convenient display of the operating modes and readings.
- The temperature sensor connection is placed in a safe location, protected from accidental damage.
- Two standard AAA batteries provide long operating time and do not require a special tool to replace.
- Built-in USB-interface for data transferring to a personal computer.

Technical Specifications

Measured temperature range	-50...+300 °C
Calibrated temperature accuracy	± 0.05 °C
Temperature resolution	adjustable 0.1, 0.01 or 0.001 °C
Temperature response for 50% step change at water flow 0.4 mm/s	7 s
Minimum depth of sensor insertion	75 mm
Dimensions: <ul style="list-style-type: none"> • electronic unit W×D×H • temperature sensor 	80×75×100 mm Ø4×250 mm
Weight	0.25 kg
Power supply	Two AAA-size 1.5 V batteries