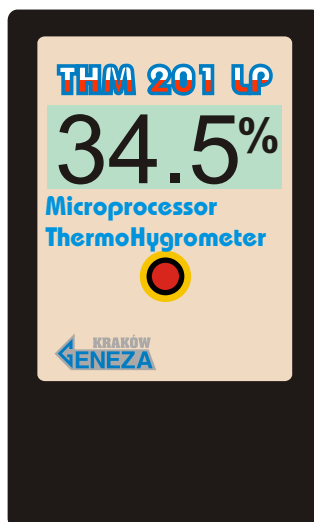


Microprocessor Based ThermoHygrometer Model T HM - 201 LP

Description



The Microprocessor based ThermoHygrometer model THM-201LP is ideal for both on-site and field relative humidity and temperature readings. The humidity sensor possesses long term stability and negligible hysteresis. Also, it is insensitive to most chemical non-agresive vapours. For measurements in dust enviroment you can choose a probe with the sintered filter. The temperature channel in the THM-201 LP thermohygrometer features Pt - 100 probe for the accurate reading. This model of thermohygrometer has a large easy - to - read LCD display

allowing 0.1°C and 0.5% RH resolution. The sensitive sensor elements are formed into a single unit. This combination probe, is plug-in directly to the meter or through the cable, and measures humidity to 98% RH at temperature up to 60°C. The probe allows to use very long cable (up to 10 meters). The THM-201 LP thermohygrometer covers a broad range of applications including laboratory and warehouse and for many every day uses in an office or factory enviroment. **The RS version** of the thermohygrometer has on-line **output to the computer PC** through **RS-232 serial interface**. Nonvolatile memory stores setup conditions (probe calibration and RS-232) and higher accuracies, greater than typical electronic thermohygrometers are achieved through a unique linearising technique. Application of the internal microprocessor ensure a minimal measuring error and a large easy - to - read LCD display enable simply read-out of results. Displaying temperature/humidity is user`s selectable by pressing the button on the left side of the housing. The long term battery life is achieved by the automatic freezing of the readings every 2 minutes when the meter is not in use.

Technical data:

Temperature sensor:Platinum Pt - 100 probe (4 wire)
 Relative humidity sensor: thin film capacitance sensor
 Temperature range: -25°C do +60°C
 Resolution of the current temperature: 0,1°C
 Accuracy of temperature measurements of the meter :..... 0,2% of the range
 Humidity range; 5% to 98% RH
 Resolution of the current humidity : 0,5%RH
 Accuracy of relative humidity measurement: ±3% @ temperature of calibration
 Humidity calibration (done by manufacturer); in the climatic chamber
 Temperature probe calibration: automatic matching at 0°C
 Temperature/humidity display: 3 1/2 digit LCD display
 Distance between probe and the meter : up to 10 meters long cable.
 Data logging (**only RS version**): on-line output to the cpmputer PC through RS-232 serial interface for further analysis, storage and hard copy printouts.
 Operating temperature/humidity : -20°C to +40°C/ up to 85%RH
 Power: 3 x 1,5 Volts AAA size battery
 Housing: black plastic
 Dimensions (without probe): 110 x 62 x 28 mm