

Humidity/Temperature Meas. Device



Digital-Hygro-/Thermometer GFTH 95

Application: quick-response humidity and temperature measurements in EDP rooms, museums, galleries, churches, office complexes, workshops, storage rooms, swimming-baths, private buildings, greenhouses, for refrigeration engineering, air conditioning, for building sites/technology, for inspectors or rendering of expert opinions etc.

Specification:

Measuring range:

°C: -20.0 ... 70.0 °C

%RH: 10 ... 95 %RH (recom. range: 30 ... 80%)

Resolution: 0.1°C or 0.1 %RH.

Accuracy: (±1 digit) (at nominal temperature = 25°C)

temperature: ±0.5% of m.v. ±0.1°C (as Pt1000 1/3 DIN)

humidity: ±3%RH (for range 30 to 80%)

Response time: T₉₀ = 15 sec.

Display: 3½-digit, 13mm high LCD-display

Operation elements: slide switch for selection of measuring range

Nominal temperature: 25°C

Operating conditions:

Electronic: -20...70°C; 0...80 %RH (non-condensing)

Sensors: -20...70°C; 0...100 %RH

Power supply: 9V-battery type IEC 6F22 (in scope of supply)

Power consumption: max. 0.1 mA

Low battery warning: „BAT“ displayed automatically in display of low battery condition.

Housing: impact resistant ABS-housing 106 x 67 x 30 mm, plus sensor head protruding at the longer side 35 mm long and 14 mm Ø, ie. overall length 141 mm.

Weight: approx. 135 g incl. battery

Accessories:

GKK 252 case
(235 x 185 x 48 mm) with foam lining

GKK 1100 case
(340 x 275 x 83 mm) with foam lining

GB 9 V spare battery

Certificate of calibration WPF4
for ISO9000ff (p.r.t. page 4)

Humidity / Temperature / Dew Point Measuring Device



Digital-Hygro-/Thermometer GFTH 200

GFTH 200 SET (incl. infra-red thermometer GIM 530 MS)

Because of the low power consumption and the integrated min-/max-value memory the **GFTH200** is perfectly suitable for long term climate surveillances.

The additional infrared thermometer contained in the GFTH 200 SET makes it easy to check mould-problem areas on walls etc. The wall can easily scanned by means of the laser beam within very short time. When wall temperature falls below the critical dewpoint (this is, when the wall gets wet), the device alerts with an audible signal.

Advantages GFTH 200:

- relative humidity, temperature and dew point in just one instrument
- high accuracy by means of digital works calibration
- min-/max-value memory for all measurements
- external Pt1000 temperature probe connectable
- offset and slope correction for easy adjustment
- extrem low power consumption

Additional advantages GFTH 200 SET:

- blindingly easy search for thermal bridges
- targeting laser for precise location even of inaccessible areas
- audible alarm below dewpoint
- fast evaluation of mould-problem areas

Specification:

Measuring range:

Temp: -25.0 ... +70.0 °C; -13.0 ... +158.0 °F

%RH: 0.0 ... 100.0 %RH
(recommended range: 11 - 90 %RH)

Td: (Dewpoint) -40.0...+70.0 °C or -40.0...+158.0 °F

Resolution: 0.1 %RH., 0.1°C or 0.1°F

Accuracy: (±1 digit) (at nominal temperature = 25°C)

temperature (internal): ±0.5% of m.v. ±0.1°C

(same as Pt1000 1/3 DIN)

temperature (external): 0.1°C (device) + probe accuracy

humidity: ±2.5 %RH (for range 11 to 90%)

Measuring probe:

temperature: Pt 1000

humidity: capacitive polymere humidity sensor

Response time: T₉₀ = 10 sec.

terminal for external probe: for connection of any Pt1000-probes with 3.5mm mono plug (for suitable probes p.r.t. page 90)

Display: 3½-digit, 13mm high LCD-display
operation elements: 3 keys for On/Off, min-/max-value display and hold. Slide switch for selection of measuring range.

Nominal temperature: 25°C

Operating conditions:

Electronic: -25...70°C; 0...80 %RH (non-condensing)

Sensors: -25...70°C; 0...100 %RH



Measuring set

Power supply: 9V-battery type IEC 6F22

Power consumption:

approx. 9µA at 1 measurings / 60s

approx. 100µA at 1 meas. / sec. (mode FAST)

Low battery warning: „BAT“

Min./max. value memory: Min and Max measuring values are stored for all 3 ranges.

Hold key: The current measuring will be "frozen" (for all three ranges).

Housing: impact resistant ABS-housing 106 x 67 x 30 mm, plus sensor head protruding at the longer side 35 mm long and 14 mm Ø, ie. overall length 141 mm.

Weight: approx. 135 g incl. battery

GIM 530 MS: for technical data for this instrument please refer to page 10.

Accessories:

GKK 252 case
(235 x 185 x 48 mm) with foam lining

GOF 175 Mini temperature probe
for surface temperature measuring (p.r.t. page 102)

further temperature probe refer to page 102

Certificate of calibration WPF4
for ISO9000ff (p.r.t. page 4)

GFTH200 - WPF4 complete-offering
device incl. certificate of calibration and case (p.r.t. p. 4)