Humidity/Temperature Measuring Device

GFTH 95

Hygro-/Thermometer

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 (recommanded 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
humidity:	±3 % RH (for range 30 ... 80 %)
Measuring probe:	
temperature:	Pt 1000
humidity:	capacitive polymer humidity sensor
Response time	T_{90} = 15 s
Display:	3½-digit, 13 mm 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	9 V-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 and spare parts:

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 6)

Humidity / Temperature / Dew Point Measuring Device

GFTH 200

Hygro-/Thermometer

GFTH 200 SET

Measuring set incl. infrared thermometer GIM 530 MS and case GKK 3000

General:

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

Accessories and spare parts:

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 127)

further temperature probe **refer to page 125**

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. page 6)

Specification:

Measuring range:	
Temperature:	-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)	
Temperatur (internal):	±0.5 % of m.v. ±0.1 °C
Temperatur (external):	0.1 °C (device) + probe accuracy
humidity:	±2.5 % RH (for range 11 to 90 %)
Measuring probe:	
temperature:	Pt 1000
humidity:	capacitive polymer humidity sensor
Response time:	T_{90} = 10 s
terminal for external probe:	for connection of any Pt1000-probes with 3.5 mm mono plug (for suitable probes p.r.t. page 127)
Display:	3½-digit, 13 mm 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
Power supply:	9 V-battery type IEC 6F22
Power consumption:	approx. 9 µA at 1 measuring / 60 s approx. 100 µA at 1 measuring / s (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 16.