**GMH 3330**
Art. no. 600343
Climate measuring device, probe not included

**GMH 3350**
Art. no. 600345
Climate measuring device, probe not included, with data logger

### General
The GMH 33xx devices are universal precision hygrometer / Thermometer and flow meter with additional Thermocouple input in one. The plug-in probes are interchangeable without recalibration, because your calibration data are on an integrated memory stick (TF5...) or they are interchangeable by the high mechanical precision (STS...). The thermocouple input T2 is optimized to be able to quickly absorb surface temperatures to e.g. display the dew point directly.

### Application
- Heating / Ventilation Air Conditioning (HVAC)
- Indoor air, meteorology, laboratory, research and teaching
- Energy assessment / optimization of buildings
- Identify research in structural damage

### Specifications

#### Measuring range:
- Relative humidity: 0.0...100.0 % RH
- Ambient temperature (ambient temperature): -30.0...+70.0 °C
- Surface temperature (ambient temperature): -40.0...+120.0 °C
- Flow rate: 0.0...100.0 % RH

#### Resolution:
- Relative humidity: ±0.1 %
- Ambient temperature (Pt1000): ±0.2 %
- Surface temperature (NiCr-Ni): ±0.5 % of m.v. ±0.5 °C
- Flow rate: ±0.1 %

#### Probes:
- No calibration required for exchange of humidity/temperature or flow rate probe.

#### Probe connection:
- 6-pin screened Mini-DIN-socket

#### NiCr-Ni connection:
- for miniature flat-pin plug

#### Display:
- two 4½ digit LCDs (12.4 mm or 7 mm high), as well as additional functional arrows.

#### Housing:
- Impact-resistant ABS plastic housing, membrane keyboard, transparent panel, integrated pop-up clip

### Interface:
- serial interface, direct connection to RS232 or USB interface of a PC via electrically isolated interface adapter GRS 3100 or GRS 3105 resp. USB 3100 N (p.r.t. accessories).

### Power supply:
- 9 V battery as well as additional d.c. connector for external 10.5...12 V direct voltage supply, (suitable battery supply: GNG10/3000)

### Characteristics:
- Battery life: approx. 120 h (incl. TFS0100)
- Calculation of dew point: based upon humidity and temperature
- Calculation of dew point distance: by means of a surface measurement
- Calculation of enthalpy: thermal content h of the air

#### Adjustment-function for atmospheric humidity measurements

#### NiCr-Ni temperature measuring:
- any standard NiCr-Ni-probe (type K) can be plugged in. Recommended: GOF 400 VE (p.r.t. p. 32). A compensation value can be set for each probe.

### Flow measurements:
- Two different systems for averaging are integrated:
  - Continuous averaging: the average value displayed is calculated using the last measurements during the averaging time set.
  - Averaging upon request: by starting the current measuring value will be displayed for the averaging time. As soon as the time has expired the average value will be displayed, the device is in HOLD mode.
  - Selectable averaging time: 1 ... 30 s

#### Logger function (GMH 3330):
- 99 data sets (fetch data via buttons or interface)
- Time of day:
  - Where and year of the calibration.
- Different modes of operation:
  - Manual mode:
    - Starts automatically at 00:00 h or is started when the logger is placed in a memory.
  - Continuous mode:
    - Starts continuously when the logger is powered on.

#### Accessories and spare parts:
- GNG 10/3000
  - Art. no. 600273
  - Plug-in power supply
- USB 3100 N
  - Art. no. 601092
  - Interface converter, electrically isolated
- GSOFT 3030
  - Software for the setting, data read-out and printing of all logger data.
  - Art. no. 601136
  - For devices of the GMH3xxx-series with logger function
- GKK 3500
  - Art. no. 601074
  - Switching module for devices of the GMH3xxx-series incl. alarm output
- GKK 3600
  - Art. no. 601062
  - Big case with cut-outs for GMH3xxx

#### Complete solution:
GMH 3330-TFS 0100E-WPF4
Art. no. 602682
Complete solution with humidity/temperature probe TFS 0100 E and incl. certificate of calibration WPF4 (~20 % / ~40 % / ~60 % / ~80 % RH ascending / descending) and case GKK 3500.