Precision Hygro- / Thermo- / Barometer

Digital-Hygro-/Thermo-/Barometer
GFTB 100

**Specification:**
- **Measuring range:**
  - temperature: -25.0°C ... +70.0 °C or -13.0 ... +158.0 °F
  - humidity: 0.0 ... 100.0 %RH (recommended range: 11 ... 90 %RH)
  - air pressure: 10.0 ... 1100.0 mbar
- **dew point temperature Td:** -40.0 ... 70.0 °C or -40.0 ... +158.0 °F
- **wet bulb temperature Twb:** -27.0 ... 70.0 °C or -16.6 ... +158.0 °F
- **moisture content x:** 0.0 ... 280.0 g/kg
- **absolute humidity h:** 0.0 ... 200.0 g/m^3

- **Resolution:** 0.1%RH, 0.1°C/F, 0.1mbar
- **Accuracy:** ±0.5 % of m.v. ±0.1°C (Pt1000 1/3 DIN B)
- **Response time:** T90 = 10 sec.
- **Display:** 4½-digit, approx. 11mm high LCD-display
- **Nominal temperature:** 25°C
- **Operating conditions:**
  - Electronics: -25...70 °C; 0...80 %RH (non-condensing)
  - Sensors: -25...70 °C; 0...100 %RH
- **Power supply:** 9V-battery type IEC 6F22
- **Power consumption:** approx. 30µA at 1 meas. / 60s (mode SLOW) approx. 70µA at 1 measurements / sec. (mode FAST)
- **Low battery warning:** „BAT“
- **Auto-off function:** when Auto Off is activated, the device switches auto-matically off, if keypad is not attended for a longer time (selectable 1..120min.)
- **Interface (optional):** serial interface, direct connection to RS232 or USB interface of a PC via electrically isolated interface converter GRS3100 o. GRS3105 resp. USB3100 (accessories).
- **Min./max. value memory:** Min and Max measuring values are stored for all ranges.
- **Hold key:** the current measuring will be "frozen" (for all ranges)
- **Configurable display:** The device can be configured by the user; display all measuring values alternating (2 or 4 sec. Cycle) or permanent with manual choice. Not required values can be suppressed.
- **Sea level adjustment:** The displayed value of the barometer can be converted to air pressure at sea level. (therefore the altitude above sea level has to be entered)
- **Tendency indicator:** (for barometer): air pressure falling/increasing

**Offset and Scale:** digital offset- and scale adjustment of all sensors

**Housing:** impact resistant ABS-housing

**Options:** (upon upcharge)
- **- GR S serial interface** (ordering description: GFTB 100 / GR S)
- **- KIT** USB-interface kit, consisting of:
  - **interface option "GRS"** for the GFTB 100
  - **USB interface converter USB 3100 N**
  - **multi channel software EBS20M** (to record all device units)

**Complete-offering:**

**GFTB 100 SET** (GFTB100 incl. infra-red thermometer GIM 530 MS)

The additional infrared thermometer contained in the GFTB 100 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.

**Additional advantages GFTB 100 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**

**Note:** for technical data for the infra-red thermometer GIM530MS please refer to catalog page 13.

**Accessories:**
- **GKK 252** case (235 x 185 x 48mm) with foam lining
- **WPF4** Certificate of calibration, humidity, for ISO9000ff (p.r.t. p. 4)
- **WP D5** Certificate of calibration, pressure, for ISO9000ff (p.r.t. p. 4)
- **miscellaneous accessories** (p.r.t. page 56 - 58)