Digital-Hygro-/Thermo-/Barometer
Product-ID: 600161
GFTB 200

**FUNCTIONS:**
- **Current consumption:** approx. 130 g incl. battery
- **Power supply:** 9 V battery
- **sensors:**
  - temperature: -25 ... +70 °C; 0 ... 100 % RH (non-condensing)
  - humidity: -25.0 °C ... +70.0 °C
  - pressure: 10.0 ... 1100.0 mbar
- **electronics:**
  - capacitance polymer humidity sensor
  - pressure: piezo-resistive sensor hybrid
- **Response time:** T90 = 10 s
- **Display:** 4½-digit, approx. 11 mm high LCD-display with additional displays
- **Accuracy:** (±1 digit) (at nominal temperature = 25 °C)
  - temperature: ±0.5 % v. MW; ±0.1 °C (Pt1000 1/3 DIN B)
  - humidity: ±2.5 % RH (at range 11 ... 90 %)
  - pressure: ±1.5 mbar (750 ... 1100 mbar)
- **Resolution:**
  - air humidity: 0.1 % RH; 0.1 °C or 0.1 °F, 0.1 mbar
  - absolute humidity: 0.0 ... 280.0 g/kg
  - dew point temperature: -40.0 ... +70.0 °C
- **Mixing ratio:** 0.0 ... 200.0 g/m³
- **Wet bulb temperature:** -27.0 ... +70.0 °C

**General:**
- **Weight:** approx. 130 g incl. battery
- **Dimensions:** Housing: approx. 141 mm x 35 mm x 14 mm
- **Offset and Scale:** digital offset- and scale adjustment of measurements
- **Sea level correction:** Barometric values can be converted to sea level
- **Tendency indicator:** Air pressure rising/falling (for barometer)
- **Alarm function:** with integrated buzzer

**Application:**
- Mobile weather station
- Housing space, indoor swimming pools
- Offices and production rooms, laboratories, storage rooms
- Museums, gallery, churches
- Offices and production rooms, laboratories, storage rooms
- Housing space, indoor swimming pools
- Mobile weather station
- Moisture content of the air.

**Specifications:**
- Measuring ranges:
  - temperature: -25.0 °C ... +70.0 °C
  - air humidity: 0.0 ... 100.0 % RH (recommended range: 11 ... 90 % RH)
  - air pressure: 10.0 ... 1100.0 mbar
- Calculated parameters:
  - dew point temperature Td: -40.0 ... +70.0 °C
  - wet bulb temperature Twb: -27.0 ... +70.0 °C
  - mixing ratio x: 0.0 ... 200.0 g/m³
  - absolute humidity d: 0.0 ... 280.0 g/kg
- Resolution:
  - air humidity: 0.1 % RH; 0.1 °C or 0.1 °F, 0.1 mbar
  - absolute humidity: 0.0 ... 280.0 g/kg
  - dew point temperature: -27.0 ... +70.0 °C
- Accuracy:
  - temperature: ±0.5 % v. MW; ±0.1 °C (Pt1000 1/3 DIN B)
  - humidity: ±2.5 % RH (at range 11 ... 90 %)
  - pressure: ±1.5 mbar (750 ... 1100 mbar)

**Additional information:**
- Sea level correction: Barometric values can be converted to sea level
- **Interface:** Serial interface, via electrical isolated interface converter USB 3100 N (accessories) directly connectable to PC.
- **Configurable display:** choice between automatically displaying all values rotationally (cycle of 2 or 4 s) or manual selection, units not needed can be excluded
- **Offset and Scale:** digital offset- and scale adjustment of measurements
- **Tendency indicator:** Air pressure rising/falling (for barometer)
- **Sea level correction:** Barometric values can be converted to sea level
- **Housing:** Housing made of impact-resistant ABS
- **Dimensions:** approx. 141 mm x 35 mm x 14 mm, additionally the sensor head at the front side, 35 mm long, Ø 14 mm; resulting total length 141 mm
- **Accessories and spare parts:**
  - GFTB 200 SET
  - GIM 530 MS
  - USB interface converter
  - multi channel software
  - portable weather station
  - Sea level correction:
  - Communication, humidity, for ISO9000ff (p.r.t. page 7)

**Variants:**
- **GFTB 200 SET**
  - Product-ID: 600163
  - Digital-Hygro-/Thermo-/Barometer with USB-interface kit, consisting of:
    - USB interface converter USB 3100 N
    - multi channel software EBS20M (to record all device units)
  - Product-ID: 600161
  - GFTB 200

**HIGHLIGHTS:**
- Easy and fast search for thermal bridges
- Targeting laser for precise location even of inaccessible areas
- Audible alarm below dewpoint

**For additional accessories p.r.t. page 72-78**