

## Climate measuring device

### Product information

## GFTB 200

04/2013

### Precision hygro- / thermo- / barometer

#### Features

- Adjustable alarm function with integrated buzzer
- Very low current consumption (>6500 hours of operation)
- PC interface
- Additional display of further measuring variables, e.g. dew-point temperature and absolute humidity
- Min/max value storage

#### Applications

- Humidity monitoring with alarm
- Mobile or stationary weather station
- Housing space, indoor swimming pools
- Office and production space, laboratory, storage rooms
- Museums, galleries, churches
- Refrigeration and AC technology
- Construction, building physics and loss assessment, etc.



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The GFTB 200 is an ideal tool for achieving a comfortable room climate. It measures the relevant variables within seconds and informs you, whether the values are in the green, with or without alarm – just as desired. This allows putting the device aside and engaging in more essential things than damage due to moisture and mold formation.

The integrated interface together with the software EBS 20M (optional) allows the device to serve as mobile weather station with long-term recording. The air conditions can be displayed both precise and clear by the additional measuring variables like wet-bulb temperature, absolute humidity and humidity content of air.

| Specifications                   | GFTB 200                                                                                                                                |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Measuring range:</b>          |                                                                                                                                         |
| 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                                                                                                                    |
| <b>Dew-point temperature Td:</b> | -40.0 ... 70.0 °C                                                                                                                       |
| <b>Wet-bulb temperature Twb:</b> | -27.0 ... 70.0 °C                                                                                                                       |
| <b>Humidity content x:</b>       | 0.0 ... 280.0 g/kg                                                                                                                      |
| <b>Absolute humidity d:</b>      | 0.0 ... 200.0 g/m³                                                                                                                      |
| <b>Resolution:</b>               | 0.1 % RH; 0.1°C or 0.1°F; 0.1mbar                                                                                                       |
| <b>Accuracy: (±1 digit)</b>      | (at nominal temperature = 25°C)                                                                                                         |
| Temperature:                     | ±0.5 % of m.v. ±0.1°C (Pt1000 1/3 DIN B)                                                                                                |
| Air humidity:                    | ±2.5 % RH (in range 11 ... 90%)                                                                                                         |
| Air pressure:                    | ±1.5 mbar (750...1100 mbar)                                                                                                             |
| <b>Sensor:</b>                   |                                                                                                                                         |
| Temperature:                     | Pt1000                                                                                                                                  |
| Air humidity:                    | Capacitive polymer humidity sensor                                                                                                      |
| Air pressure:                    | Piezoresistive sensor hybrid                                                                                                            |
| <b>Response time:</b>            | T <sub>90</sub> = 10 sec.                                                                                                               |
| <b>Nominal temperature:</b>      | 25°C                                                                                                                                    |
| <b>Power supply:</b>             | 9V-battery type IEC 6F22                                                                                                                |
| <b>Auto-off function:</b>        | If auto-off is activated, the device switches automatically off, if no button is pressed within a longer period (selectable 1..120min). |
| <b>Interface:</b>                | Serial interface, directly connectable to USB socket of PC via electrically isolated interface converter USB 3100 N (accessories).      |
| <b>Sea level correction:</b>     | The displayed barometer value can be converted to air pressure at sea level. (therefore the altitude has to be entered)                 |