

Operating Manual Addendum

GFTB100 / GRS

Serial Interface GRS3100

The serial interface

By means of the serial interface and a suitable electrically isolated interface adapter (GRS3100, GRS3105 or USB3100) the device can be connected to a computer for data transfer. With the GRS3105 up to 5 devices can be connected to one interface (see also manual of GRS3100, USB3100 or GRS3105)

To avoid transmission errors, there are several security checks implemented e.g. CRC.

The following standard software packages are available:

- **EBS9M:** 9-channel software to display the measuring values
- **EASYCONTROL:** Universal multi channel software (EASYBUS-, RS485-, or GMH3000- operation possible) for real-time recording and presentation of measuring data of one device in the ACCESS®-data base format

In case you want to develop your own software we offer a **GMH3000-development package** including:

- a universally applicable Windows functions library ('GMH3000.DLL') with documentation that can be used by the most programming languages.
- Programming examples Visual Basic™, Delphi 1.0™, Testpoint™, EXCEL™ VBA

The device has 3 channels:

Channel 1: absolute air pressure	[hPa]
Channel 2: temperature	[°C] or [°F]
Channel 3: relative humidity	[%]
Channel 4: dew point temperature Td	[°C] or [°F]
Channel 5: wet bulb temperature Twb	[°C] oder [°F]
Channel 6: moisture content	[g/kg]
Channel 7: absolute humidity	[g/m ³]

Note: *The measuring and display range values read back from the interface are always in the selected measurement unit (mbar, bar...)!*

Supported functions:

Code	Name/Function	Code	Name/Function
0	Read measurement value	199	Read kind of measuring of display
3	Read system state	200	Read min display range
6	Read min memory	201	Read max display range
7	Read max memory	202	Read display range - unit
12	Read ID number	204	Read display range – decimal point
176	Read min measuring range	208	Read # of channels
177	Read max measuring range	222	Read power off time (Conf-P.oFF)
178	Read measuring range – measuring unit	223	Set power off time (Conf-P.oFF)
179	Read measuring range – decimal point	240	Reset
180	Read kind of measuring of sensor	254	Program version



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