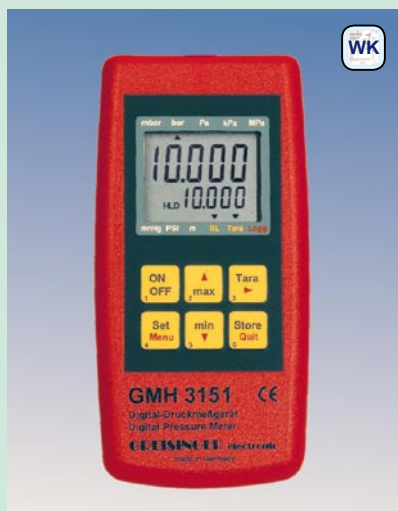


## Pressure measuring device with logger

# GMH 3151



### Special features:

- 4½-digit display  
*probes with higher resolution up on request*
- logger functions
- peak value memory
- analog output 0-1V
- 1000 measurements / second
- digital sensor adjustment possible
- min- / max-alarm
- integrated horn

### Additional function of the GMH3156:

- 2 GMSD-probes connectable
- difference measurement of two probes

# GMH 3156



**GMH 3151** (probe not included - for probes please refer to page 22/23)

**GMH 3156** (probes not included - for probes please refer to page 22/23)

**GMH 3150 - ex** (Ex ib IIC T4 / probe not included - for probes p.r.t. page 22/23)

Specification:	GMH3150-ex	GMH3151	GMH3156
<b>max. display range:</b>	-1999 ... +9999 digit	-19999 ... +19999 digit	-19999 ... +19999 digit
<b>Measuring range:</b>	corresponding to used probe		
<b>Overload:</b>	corresponding to used probe		
<b>Resolution:</b>	corresponding to used probe		
<b>Accuracy: (device)</b>	±0,1%FS ±1Digit (at nominal temperature = 25°C)		
<b>Pressure units:</b>	mbar, bar, Pa, kPa, MPa, mmHg, PSI, m, can be selected.		
<b>Probe connection:</b>	1 sensor socket	1 sensor socket	2 sensor sockets <i>6-pin screened lockable Mini-DIN-socket(s) for GMSD-sensors. Automatic probe detection and setting of meas. range upon plugging in of probe.</i>
<b>Display:</b>	2 x 4-digit LCD	2 x 4½-digit LCD	2 x 4½-digit LCD
<b>Output:</b>	serial interface	serial interface o. AAG	serial interface o. AAG
<b>- serial interface:</b>	direct connection to RS232 or USB interface of a PC via interface adapter GRS3100, GRS3105 or USB3100 (accessories)		
<b>- analog output:</b>	--	0-1V, freely adjustable (resolution 12bit)	0-1V, freely adjustable (resolution 12bit)
<b>Power supply:</b>	9V-battery	9V-battery, d.c. connector	9V-battery, d.c. connector
<b>Sensor adjustment:</b>	zero point adjustment at keypress	digital offset and scale input	digital offset and scale input
<b>Tare, hold, min/max value:</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Peak value memory:</b>	≥10 ms	≥1 ms	≥1 ms
<b>Measuring cycle:</b> "slow"	4 measurements / s	4 measurements / s	4 measurements / s
"fast" (with filter)	≥ 100 meas. / s	≥ 1000 meas. / s	1000 meas. / s
"peak-detect"	≥ 100 meas. / s	≥ 1000 meas. / s	1000 meas. / s
<b>Logger functions:</b>			
<b>manually:</b>	99 data sets	99 data sets	99 data sets
<b>-cycle:</b>	9999 data sets	10000 data sets (max. 64 recording sequences)	4000 data sets (max. 64 recording sequences)
<b>-adjustable cycle time:</b>	1 ... 3600 seconds	1 ... 3600 seconds	1 ... 3600 seconds
<b>Averaging function:</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Min-/max- alarm:</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Real-time clock:</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Power consumption:</b>	approx. 3mA (incl. sensor)	max. 1.6mA (slow mode) max. 7mA (fast = 1000Hz)	max. 1.6mA (slow mode) max. 7mA (fast = 1000Hz)
<b>Working condition:</b>	0 ... 50°C, 0 ... 95 %RH	-25 to +50°C, 0 to +95%r.F. (non-condensing)	
<b>Power-Off-function:</b>	1...120 min (can also be deactivated).		
<b>Housing dimensions:</b>	142 x 71 x 26 mm, impact-resistant ABS plastic housing. Front side IP65, integrated pop-up clip for table top or suspended use.		
<b>Weight:</b>	approx. 190 g (incl. case)	approx. 150 g	approx. 155 g

### General functional description:

**Tare function:** display value and the min./max values memorized can be set to zero.

**Hold function:** by pressing a button the current meas. value will be memorized.

**Min./Max. value memory:** memorizing of max. and min. values.

**Peak value memory (peak-detect):** In the min-/max-value memory will be detected not filtered pressure peaks ≥10msec or ≥1msec.

**Averaging function:** integrates the meas. values during a selectable period of time and then calculates the average display value.

**Logger operation:** Logger start and stop via the keyboard or interface. Comfortable read-out and display software (GSOFT3050) available as additional equipment.

**Low power logger mode:** (only in meas. cycle "slow") Only one measurement carried out at the end of the respective logger cycle. The battery life is considerably prolonged.

For long-term recordings (eg. tightness).

**Min-/Max-alarm:** the measuring value is constantly monitored if they remain within the min./max. limits set (deaktivatable)

- Alarm:** 3 different alarm settings
- "off" - alarm function deactivated
  - "on" - visual alarm via display, interface alarm, alarm sounded via integrated horn.
  - "no.So." - visual alarm via display and interface alarm

**- Controlling function:** with the help of the switching module GAM3000 (optionally) electric equipment can be switched on/off or alarm memoried (p.r.t. page 38)

**SeaLevel-correction:** when connecting an abs. pressure probe the barom. air press. can also be displayed corrected to sea level "zero".

(Air pressure comp. achieved by entering the meters above sea level "zero")