HAND-HELD MEASURING DEVICES WITH INTEGRATED SENSOR

AUTO OFF

HOLD

ISO

MIN MAX

O / S-CORR

TARA

HIGHLIGHTS:

○ Integrated pressure sensor
○ Sturdy metal connection pin
○ Tare function / zero point offset
○ Model with protection available

ADDITIONAL FUNCTIONS GMH 3181-...:

ALARM LOGG

Type specific data:	GMH 3161 - ...	GMH 3181 - ...	GMH 3161 - ... -EX	GMH 3181 - ... -EX
Display:	2 x 4½-digit LCD	2 x 4½-digit LCD	2 x 4½-digit LCD	2 x 4½-digit LCD
Sensor:	Piezoresistive differential pressure sensor internally built into the instrument. Suitable for air and non-aggressive gases. (Note: Not suited for water!)			
Pressure connection:	2 pressure port for universal 6 x 1 mm (4 mm hose inside diameter) or 8 x 1 mm (6 mm hose inside diameter) plastic tubing			
Output:	interface	interface or AAG	interface*	interface or AAG*
Serial interface:	x	x	x	x
Analog output:	–	0 ... 1 V, freely adjustable (resolution 12 bit)	–	0 ... 1 V, freely adjustable (resolution 12 bit)
Power supply:	9 V battery, d.c. connector	9 V battery, d.c. connector	9 V battery, d.c. connector*	9 V battery, d.c. connector*
	suitable 9 V-battery, d.c. connector for external 10.5 ... 12 V direct voltage supply. (suitable power supply: GNG10 / 3000)			
Sensor adjustment:	digital offset and scale input	digital offset and scale input	digital offset and scale input	digital offset and scale input
Peak value memory:	–	≥1 ms	–	≥1 ms
Measuring cycle: „slow"	4 measurements / s	4 measurements / s	4 measurements / s	4 measurements / s
„fast" (with filter)	–	≥1000 measurements / s	–	≥1000 measurements / s
„peak-detect" (Spitzenwertspeicher)	–	≥1000 measurements / s The min- / max- value memory stored unfiltered pressure peaks ≥1 ms	–	≥1000 measurements / s The min- / max- value memory stored unfiltered pressure peaks ≥1 ms
Averaging function:	–	x	–	x
Battery life:	approx. 500 h	approx. 500 h (slow mode) approx. 120 h (fast = 1000 Hz)	approx. 500 h	approx. 500 h (slow mode) approx. 120 h (fast = 1000 Hz)
Operating conditions:	-25 ... +50 °C, 0 ... +95 % RH (non-condensing)		-10 ... +50 °C, 0 ... 95 % RH (non-condensing)	
Housing:	142 x 71 x 26 mm (H x W x D) (without pressure connection pin - pin approx. 16 mm protruding at front side of device), Impact-resistant ABS plastic housing, membrane keyboard, transparent panel, integrated pop-up clip			
Weight:	approx. 165 g	approx. 170 g	approx. 205 g (incl. leather case)	approx. 210 g (incl. leather case)
Scope of supply:	Device, battery, calibration protocol, manual	Device, battery, calibration protocol, manual	Device, battery, manual	Device, battery, manual

* Please refer to note to Ex-design types (p. 84)

Additional functions:

Serial interface: direct connection to RS232 or USB interface of a PC via electrically isolated interface adapter GRS 3100, GRS 3105 or USB 3100 N.

GMH 3181:
Low power logger mode: (only in measuring 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 (e.g. leaktest).
Averaging function: integrates the meas. values during a selectable period of time and then calculates the average display value.
Controlling function: with the help of the switching module GAM3000 (optionally) electric equipment can be switched on/off or alarm monitored (see accessories)
Logger functions:
- manual: 99 data sets
- cyclic: 10000 data sets (max. 64 recording sequences), adjustable cycle time: 1 ... 3600 s

Note to the pressure unit selection: (information for all GMH31xx):
The choice of a specific pressure unit is possible, if its whole measuring range is displayable within the display of the device and the sensor is supporting these resolution.

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