

# Water-proof handheld device for pressure measurement with external changeable probes

## Features

- Water-proof (device and plug-in connections)
- Serial interface and analog output
- Data logger and alarm function
- Peak value detection (1000 measurements / s)
- Leakage test
- Robust silicone protection cover
- Large double display
- Background illumination

## Application

Mobile use for:



- industry and craft
- HVAC: heating, ventilation, air-conditioning
- leakage test / pressure test
- chimney draft measurement: under pressure
- leakage test at buildings (i.e. 4 Pascal test)
- measurements of gas and oil firings
- automobile trade



**GMH 5130** with 1 sensor connections, without sensor

**GMH 5150** with 1 sensor connections, analog output and data logger, without sensor

**GMH 5155** with 2 sensor connections, analog output and data logger, without sensors

Specification	GMH 5130	GMH 5150	GMH 5155
<b>Sensor connections:</b>	1	1	2
<b>Connections:</b>			
Sensor	1x 7-pole bayonet socket	1x 7-pole bayonet socket	2x 7-pole bayonet socket
Output / ext. supply	4-pole socket for serial interface and supply (with accessories: USB adapter USB 5100)	4-pole socket for serial interface and supply (with accessories: USB adapter USB 5100)	4-pole socket for serial interface and supply (with accessories: USB adapter USB 5100)
	--	analog output 0 ... 1 V	analog output 0 ... 1 V
			
<b>Suitable probes:</b>	GMSD / MSD sensors, available ranges (resolutions): from -1.999 ... 2.500 mbar / (0.001 mbar) till 0 ... 1000 bar (1 bar)		
<b>Display unit:</b>	depends on measuring range selection and sensor: mbar, bar, Pa, kPa, MPa, mmHg, inHg, PSI, mH <sub>2</sub> O		
<b>Measuring frequency:</b>	4 measurements / s or 1000 measurements / s		
<b>Accuracy:</b>	± 0.1 % FS ± 1 digit		
<b>Display:</b>	4 ½ digit 7-segment, illuminated (white)		
<b>Adjustment:</b>	offset / slope via menu		
<b>Housing:</b>			
Protection class:	IP65 / IP67		
Dimensions:	160 x 86 x 37 mm (H x W x D) incl. silicone protection cover (red)		
Weight:	ca. 250 g incl. battery and protection cover		
<b>Power supply:</b>	2x AAA battery (included)		

# Handheld device for pressure measurement

**GMH 5130** with 1 sensor connections, without sensor

**NEW**

**GMH 5150** with 1 sensor connections, analog output and data logger, without sensor

**GMH 5155** with 2 sensor connections, analog output and data logger, without sensors

Functions	GMH 5130	GMH 5150	GMH 5155
Min / max value memory	x	x	x
Hold / auto-hold	x	x	x
Auto power off	x	x	x
Low battery display "BAT"	x	x	x
Display of condition of battery	x	x	x
Background lightning	x	x	x
Period selectable (on/off or 5 s ... 2 min)			
User-defined unit	-	conversion to arbitrary unit by linear factor	
Average filter	adjustable: 1 ... 120 s	adjustable: 1 ... 120 s	adjustable: 1 ... 120 s
Leakage test function	-	leak rate display, leak rate alarm (/s, /min, /h)	
Air velocity / flow volume	-	Pitot tube measurement (accessories)	
Analog output	-	0 - 1 V, freely adjustable, connection with 4-pole bayonet connector, Resolution 12 bit	
Data logger	-	cyclic: 10.000 data sets	cyclic: 8.000 data sets
		Single value: 1.000 data sets (with measuring point input, 40 adjustable measuring point texts or measuring point numbers)	
Min-/max- alarm	-	channels: 1	channels: 3 (sensor 1, sensor 2, difference) with individual alarm boundaries
		Permanent monitoring of alarm boundaries 3 alarm conditions - off: Alarm function inactive - on: Alarm report via display, integrated buzzer and interface - no Sound: Alarm report only via display and interface	



## General function description

**Min / Max Value Memory:** highest and lowest measured value is saved

**Auto-Hold:** automatic freezing of a constant measuring value

**Auto Power Off:** device is automatically switched off after a selected period if unused (0 to 120 min, or deactivated)

**Additional Display for pH-Electrode and Battery:** Bar graph display

**Low Battery Display "BAT"**

**Note to pressure unit selection:**

A pressure unit can be selected only if the whole measuring range of this unit can also be displayed and the sensor supports the corresponding resolution.

## Accessories



**GMSD ... K51** pressure sensors (p.r.t. page 42)

Application field: non-aggressive gases for over / under pressure and difference pressure measurements or absolute pressure measurements



**MSD** pressure sensors / stainless steel (p.r.t. page 43)

Application field: air, aggressive gases for over / under pressure and difference pressure measurements or absolute pressure measurements

**MSD-K51** 1 m connection cable for MSD sensors

**EBS 20M** software for long-term monitoring (p.r.t. page 58)

**GSOFT 3050** (p.r.t. page 58)

Software for operation of logger devices

**USB 5100**

Electrically isolated interface converter, supplied via USB

**Prandtl-Staurohr** (made of stainless steel)

for air velocity / flow volume measurement  
Ø = 3 mm, NL = 300 mm, max. 600 °C

**GKK 3500**

Device case with eggcrate foam and cut-outs for 1 device  
(394 x 294 x 106 mm)