

Product information

Handheld

G 1111 Baro-/Vacuummeter
G 1114 Barometer

With integrated sensor



- Modern and functional design – pocket-size
- Excellent price/performance ratio
- 3-line backlit display / overhead display at the push of a button
- Waterproof (IP67)
- Robust, long battery operation time
- Easy to use universal pressure port with exchangeable connections
- High resolution and precision
- Very fast!
- Calibration options/ traceable
- Made in Germany

Characteristics

The primary focus in the development of the new G 1100 series was placed on the essential functions of the measurement technology. The heart of the instrument – the sensor – is a high-class component – which excels in this instrument class.

The high reliability, speed and precision of the G 1100 variants, packed in a compact and water protected housing makes the instruments an ideal partner of industry and craft sector, Made in Germany.

G 1100 Series – The reference class in pocket size.

G 1111

Barometer / Manometer for fast measurements in vacuum.
 Fast and precise for example to test vacuum packaging machines: Just pack the instrument and read the display – finish!
 As well suitable for monitoring vacuum cast processes. With the min-value function, the result can be read even after taking the instrument out of the packaging.

NEW: Increased precision in vacuum even over varying temperature!

G 1114

Barometer wide range, high resolution.
 Covers pneumatic range with resolution of 1 mbar!
 Can be used as relative instrument (use tare function at zero pressure) or as absolute instrument (starts at ambient pressure, e.g. 970 mbar = 970 hPa).

NEW: UNIVERSAL-PORTS for use with a large range of pressure connections: Screw fitting, Quick-Connect, Push-Pull: All these types can be connected to the instrument! You have the choice, which connection is most practicable for you – instrument keeps the same. Increased resolution of 0.1 Pascal at high precision for finest pressure adjustments.

Connection options

- ① UT connection for tubes 6 x 1 mm (4 mm inner) and 8 x 1 mm (6 mm inner)
- ② QC6 Quick-Connect connection for 6 x 1 mm (Ø 4 mm inner) tubes
- ③ ST6 screw connection for 6 x 1 mm (Ø 4 mm inner) tubes
- ④ MCM mini male quick coupling for female quick coupling ⑤

Please select variant when ordering. Can be changed later.



Universal port for the connection of different pressure connections.

The pressure connection is exchangeable due to 1/8 inch port!

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Technical data

	G 1111	G 1114
Description	Barometer / Vacuummeter	Barometer
Measuring	Absolute pressure	
Pressure connection	one tube connection, interchangeable with G1/8 universal port	
Ranges / resolution	0.0..1700.0 hPa (mbar)	0..14000 hPa (mbar)
Display units	hPa, mbar, PSI, mmHg (Torr)	hPa, mbar, bar, PSI, mmHg (Torr)
Measuring frequency	Slow: 2.5 measurements per second, Fast: 25 measurements per second	
Precision typ.	± 2 hPa (@ 5..30 °C) Option -VAC @ 0..20 hPa: ± 1 hPa (@ 10..30 °C)	± 0.02 % FSS +/-0.1 % of value (@ 25 °C)
Error max. (-20..50 °C)	± 1.25 % FSS	± 0.1 % FSS ± 0.5 % of value
Max. overload	3000 hPa abs.	20000 hPa abs.
Display	3-line segment LCD, additional symbols, illuminated (white, illumination time adjustable), overhead display on key press	
Standard functions	Min / Max / Hold, auto-Power-Off-function / if activated, the product switches off automatically	
Optional special functions	Sea level correction, NULL/Tare function, AVR: Averaging over 2 s / 5 s / 10 s	
Adjustment	Zero point and slope	
Housing	Break-proof ABS housing, protection rating IP67, dimensions L x W x H: 108 x 54 x 28 mm without pressure connection, weight: 140 g incl. battery	
Operating conditions	-20 to +50 °C; 0 to 95 % r.h. temporarily 100 % r.h.)	
Storage temperature	-20 to +70 °C	
Power supply	2 x AA battery (included in the scope of delivery), current consumption: ca. 1 mA (slow measurement SLO), battery life ca. 3000 h, battery indicator: 4-stage charge status indicator, note for low charge level: "BAT LO"	

Ordering code

G11 1. 2. 3. 4.
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1. Measuring range / pressure connection	
11	0.0..1700.0 hPa abs
14	0..14000 hPa abs
2. Connection option	
UT	incl. connection for tube 6x1 mm (4 mm inner) or 8 x 1 mm (6 mm inner)
QC6	incl. quick-connect adapter for 6 x 1mm (Ø 4 mm inner) tubes
ST6	incl. screw type port adapter for 6 x 1 mm (Ø 4 mm inner) tubes
MCM	incl. mini quick coupling
3. Option (only G1111)	
VAC	add. housing vent for fast complete evacuation
4. Set option	
	Device only
SET	Measuring device, 1 m tube 6x1, suitcase GKK 1002

Accessories

- Protection bag with belt clip: ST-G1000, Art.No. 611373
- Metal belt clip self-adhesive: GCLIP1000, Art.No. 475820
- Connectors 1/8 Zoll: GDZ-UT, GDZ-QC6, GDZ-ST6, GDZ-MCM
- Connectors: PVC tube 6/4 : GDZ-01
Silicone tube 8/5: GDZ-31
- Hose protection for pressures over 1 bar: GDZ-19, Art.No. 601576

Optional

- ISO calibration certificates: 5 points rising, 5 points falling: ISO-WPD5, Art.No. 602514

***) Option VAC (G 1111 only):**

Pressure compensation Pressure connection



The G1111-xx-VAC has a pressure connection and a pressure compensation. This means that no dangerous internal pressure can build up during evacuation and on the other hand no particles can enter the inside of the device when the vacuum is released, as the pressure compensation element acts as an extremely fine pore filter.

ab Firmware Version 1.3 (11.2020)

The buttons can be deactivated automatically when the vacuum is applied: Even when evacuated in foil, the buttons are not activated by negative pressure.

An additional adjustment ensures better accuracy in the vacuum range.