

PRECISION BAROMETER / ALTIMETER



AUTO OFF



HOLD

ISO

MIN MAX



NEW!

HIGHLIGHTS:

- Modern and functional housing – pocket size
- 3-line backlit display
- Waterproof (IP67)
- High resolution and accuracy for ambient pressure and altitude
- Configurable sea level correction
- Altimeter function with convenient altitude adjustment
- Tendency display, can be used as a variometer
- Calibration options / traceable
- Robust, long battery life



SUCCESSOR FOR GTD 1100 AND GPB 3300 PRODUCTS



Top side view with pressure equalization openings

G 1110

Item No. 480432
Precision Barometer / Altimeter

G 1110-WPD

Item No. 482360
Precision Barometer / Altimeter
incl. case GKK 1002, WPD5 calibration certificate

GENERAL:

The development of the new G 1100 series was intentionally focused on the essential measurement technology functions – a high-quality sensor is the heart of the measuring instrument – which despite the low overall price was not economized here! Precision, speed and reliability, packed in a compact and water-protected housing makes the device a reliable partner of the trade, made in Germany. G 1100 Series – the pocket-size benchmark class.

APPLICATION

For fast measurement in meteorology, aviation and motor sports, hiking, cycling and more. Fast, precise and high-resolution: resolution 0.1 hPa (mbar) and resolution of the pressure-derived altitude display 0.1 m! As a reference for countless devices with integrated barometer sensor. Barometer sensors are used in countless applications: for example, vehicles with combustion engines (air pressure as an important parameter for engine control), altimeters (calculation of altitude via barometric altitude formula), navigation systems, smartphones and, of course, in weather stations. But is the displayed absolute pressure correct? Due to the traceability of the devices via optional calibration certificates (ISO 17025, DAKS), the barometer serves as a perfect reference device for checking the actual accuracy of corresponding devices.

TECHNICAL SPECIFICATIONS:

Measuring ranges / resolution
Barometer:
300,0 .. 1100,0 hPa (mbar) abs.
4,350 .. 15,950 PSI abs.
225,0 .. 825,0 mmHg (Torr) abs.
Altimeter:
-500,0 .. 9000,0 m
-1640 .. 19999 ft
Temperature:
-20,0 .. 50,0 °C / -4,0 .. 122,0 °F

Accuracy	Barometer: typ.: ± 1 hPa (bei T: 0 .. 30 °C) max.: ± 0,25 % FSS corresponds to ± 2 hPa Altimeter: typ.: ± 1 m rel. (over short period of time at const. Ambient pressure @ 25 °C) Temperature: typ.: ± 0,5 °C @ 25 °C
Measurement frequency	FAST: Approx. measurements per second SLO: Approx. 1 measurements per second
Overload	4000 hPa abs.
Pressure connection	No connection, integrated sensor Pressure compensation via membrane
Display	3-line segment LCD, backlit
Standard functions	Min/Max/Hold, Auto-Power-Off function Tendency display, time base selectable (1s, 60s, 1h, 3h) Only as altimeter: The covered altitude meters are calculated (AscentASC, Descent DESC, Resolution 1 m)
Additional functions	NULL: Tare function respectively Convenient altitude setting AVR: Averaging over 2 s / 5 s / 10 s Only as altimeter: Variometer display can be shown with ft/h, m/s, m/h.
Adjustment	Zero point and slope
Housing	Shatterproof ABS housing, protection class: IP67, Dimensions: 108x54x28 mm (LxWxH), Weight: 140 g battery
Working conditions	-20 to 50 °C; 0 to 95 % r.h. (short-term condensation possible)
Storage temperature	-20 bis 70 °C
Power supply	2 x AA batteries (included), Operation time approx. 6000 h (measurement mode SLO), 4-stage battery status indicator, low battery indication: "BAT LO".
Auto-Power-Off function	If activated, the device switches off automatically

ACCESSORIES OR SPARE PARTS

ST-G1000

Item No. 611373
Protective case, leather, G 1000 Protective case made of Nappa leather, a universal recess for sensors, belt clip

GCLIP 1000

Item No. 475820
Metal belt clip, self-adhesive for G1000 series



GDZ-UT

Item No. 479260
Pressure socket for tube 6/4 or 8/6 with screw-in thread G 1/8, brass nickel-plated



GDZ-QC6

Item No. 479261
Quick connector for tube 6/4 with screw-in thread G 1/8, brass nickel-plated



GDZ-ST6

Item No. 479466
Tube screw connection for tube 6/4 with screw-in thread G 1/8, brass nickel-plated



GDZ-MCM

Item No. 479467
Mini quick-release connector with screw-in thread G 1/8, brass nickel-plated, nominal width 2.7 mm



GDZ-MCF

Item No. 480221
Mini quick coupling with screw connection for tube 6/4, nominal width 2.7 mm, locks when unplugged



GDZ-01

Item No. 601541
PVC tube 6/4 (6 mm outer Ø, 4 mm inner Ø, 5 bar at 23 °C)



GDZ-03

Item No. 601545
PUR (polyurethane) 6/4 (6 mm outer Ø, 4 mm inner Ø, 9 bar at 23 °C)



GDZ-31

Item No. 606070
Silicone tube 8/5 (8 mm outer Ø, 5 mm inner Ø, 2 bar at 23 °C, max. 200 °C), very flexible



GDZ-34

Item No. 479742
Plastic pore filter with screw-in thread G 1/8, for direct application in Vacuum packing machines



GDZ-35

Item No. 480328
Self-adhesive filter membrane Ø 7 mm, to protect the sensor from potting compound, etc., 10 pieces