

## Family datasheet

### ECO 210-3 Fine Manometer

### ECO 210-5 Manometer

- Modern and functional design – pocket-size
- Excellent price/performance ratio
- 3-line backlit display / overhead display at the push of a button
- Waterproof (IP67 excl. pressure ports)
- 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

**ECO 21x Series – The reference class in pocket size.**

#### ECO 210-3

#### **Fine pressure manometer for application in Heating / Ventilation / Air-conditioning (HVAC)**

The measurement range up to 200 hPa (mbar) / 20 kPa and the high resolution up to 0.1 Pascal in the optimized fine pressure mode covers the main applications for gas pressure 150 hPa (mbar) and burner adjustments with a single instrument. The high precision simplifies e.g. adjustments of dynamic pressure or draft measurements. The measurement is independent of instruments orientation – better than many, even much more expensive, competitors.

#### ECO 210-5

The sister device of the extremely high-resolution G 1107 is the first choice when differential pressures  $> \pm 200$  hPa (mbar) are to be measured. Up to  $\pm 2000$  hPa are covered precisely and with high resolution (up to 0.01 hPa or 0.1 Pascal in optimized fine pressure mode).

**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.**

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#### Anschlussvarianten

- 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 nominal diameter 2.7  
(Mini quick connect coupling socket optionally available)

Universal port for the connection of different pressure connections..  
The pressure connection is exchangeable due to 1/8 inch port!



Please select variant when ordering. Can be changed later.



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#### Technical data

	ECO 210-3	ECO 210-5
Description	Fine Manometer	Manometer
Measuring	Difference	
Pressure connection	2 tube connections, interchangeable with G1/8 universal ports	
Ranges / resolution	Choice from -2000..+2000 Pa to -200,0..+200,0 hPa (mbar) (FINE: -200,0..+200,0 Pa)	choice from -200.0..+200.0 hPa to -2000..+2000 hPa (mbar) (FINE: -2000..+2000 Pa)
Display units	Pa, hPa, mbar, PSI, mmHg (Torr)	[FINE: Pa], hPa, mbar, bar, PSI, mmHg (Torr)
Measuring frequency	Slow: 2,5 measurements per second Fast: 25 measurements per second	
Precision typ. @ 25 °C	+/- 0,1 % FSS	+/- 0,1 % FSS
Precision max. (-20..50 °C)	+/- 1 % FSS	+/- 1 % FSS
Max. overload	+/- 1700 hPa	+/- 3100 hPa
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	NULL / Tare function	
	FINE: With 0.1 Pa resolution	FINE: : With 1 Pa resolution
	AVR: Averaging over 2 s / 5 s / 10 s	
Adjustment	Zero point and slope	
Housing	Break-proof ABS housing, protection rating IP67 (pressure connections must be protected from soiling and moisture), dimensions L x W x H: 108 x 54 x 8 mm without pressure connection, weight: 150 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"	

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#### ORDERING

#### CODE

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1.	<b>Measuring range / pressure connection</b>	
3		-2000..2000 Pascal (-20,00..20,00 mbar) -200,0..200,0 mbar dif
5		-200,0..200,0 mbar -2000..2000 mbar dif
2.	<b>Connection option</b>	
UT		2x G1/8 inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner)
QC6		2x G1/8 inch port incl. quick connector for tube with outer-Ø 6 mm
ST6		2x G1/8 inch port incl. screw connector for tube with outer-Ø 6 mm
MCM		2x G1/8 inch port incl. mini quick coupling plug, nominal width 2.7
3.	<b>Set option</b>	
		Device only
SET		Device, 1 m tube 6 x 1, case GKK 1002
SET		Device, 1 m tube 6 x 1, case GKK 1002, 2 quick connect sockets GDZ-MCF for -MCM
SET 8		Measuring device, 1 m Silicone tube 8 mm, suitcase GKK 1002 (only G 1107)

#### Standard-Articles

ECO 210-3-UT	Fine manometer, pressure connection: 2x G1/8 inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner) Set-Option: Device only	<b>Art.Nr. 486718</b>
ECO 210-3-UT-SET8	Fine manometer, pressure connection: 2x G1/8 inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner) Set-Option: Measuring device, incl. 1 m rubber tube 8 mm, suitcase GKK 1002	<b>Art.Nr. 487010</b>
ECO 210-3-QC6	Fine manometer, pressure connection: 2x G1/8 inch port incl. quick connector for tube with outer-Ø 6 mm Set-Option: Device only	<b>Art.Nr. 486960</b>
ECO 210-5-UT	Manometer, pressure connection: 2x G1/8 inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner) Set-Option: Device only	<b>Art.Nr. 486735</b>

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### ECO 210-5 Manometer

ECO 210-5-ST6-WPD	Manometer, pressure connection: 2x G1/8 inch port incl. screw connector for tube with outer-Ø 6 mm Set-Option: Device, incl. 1 m tube 6x1 PVC, case GKK 1002, factory calibration WPD5, not DAkkS accredited	<b>Art.Nr. 487035</b>
ECO 210-5-QC6	Manometer, pressure connection: 2x G1/8 inch port incl. quick connector for tube with outer-Ø 6 mm Set-Option: Device only	<b>Art.Nr. 486983</b>
<b>Accessories</b>		
ST-G1000	Protection bag with belt clip	<b>Art.-Nr. 611373</b>
GCLIP1000	Metal belt clip self-adhesive	<b>Art.-Nr. 475820</b>
GDZ-UT	Universal pressure port for tube 6/4 or 8/6 with male thread G 1/8, Ms nickel plated	<b>Art.-Nr. 479260</b>
GDZ-QC6	Quick connect for hose 6/4 with male thread G 1/8, brass nickel plated	<b>Art.-Nr. 479261</b>
GDZ-MCM	Mini quick connect coupling plug (nominal diameter 2.7) with male thread G 1/8, brass nickel plated	<b>Art.-Nr. 479467</b>
GDZ-MCF	Mini quick connect coupling socket (nominal diameter 2.7) with screw lock for tube 6/4, seals when plugged of, brass\nickel plated	<b>Art.-Nr. 480221</b>
GDZ-01	Tubes: PVC hose 6/4	<b>Art.-Nr. 601541</b>
GDZ-03	Tubes: PUR (Polyurethane) 6/4 (6 mm outside-Ø, 4 mm inside-Ø, 9 bar at 23 °C)	<b>Art.-Nr. 601545</b>
G1000-Cover	Rubber protection cover for ECO-Line/G 1000 series, black, incl. 2 neodym magnets	<b>Art.-Nr. 483958</b>
GKK1000	Case for ECO-Line / G1000 series, Dimensions: 235 x 185 x 48 mm (W x H x D)	<b>Art.-Nr. 611603</b>

### Optional

ISO-WPD5	ISO calibration certificate: 5 points rising, 5 points falling:	<b>Art.-Nr. 602514</b>
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For more available accessories, visit the Senseca-Website.