

## 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.**

## Family datasheet

### ECO 210-3 Fine Manometer

### ECO 210-5 Manometer

#### 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.



## Family datasheet

### ECO 210-3 Fine Manometer

### ECO 210-5 Manometer

#### 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"	

## Family datasheet

### ECO 210-3 Fine Manometer

### ECO 210-5 Manometer

#### ORDERING

#### CODE

1.                      2.                      3.

ECO 210	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
---------	---	----------------------	---	----------------------	---	----------------------

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>

## Family datasheet

### ECO 210-3 Fine Manometer

### 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>
----------	--------------------------------------------------------------------	------------------------

For more available accessories, visit the Senseca-Website.