

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 push of button
- Robust, long battery operation time
- Easy to use universal pressure port with exchangeable connections
- High resolution and precision
- Very fast!
- Calibration options



Characteristics

The primary focus in the development of the ECO line 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, packed in a compact and water protected housing makes the instruments an ideal partner of industry and in the craft sector.

ECOline – 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 1 Pa (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 instrument orientation – better than many, even much more expensive, competitors.

ECO 210-5

The sister device of the extremely high-resolution ECO 210-3 is the first choice when differential pressures >

± 200 hPa (mbar) are to be measured. Up to ± 2000 hPa are covered precisely and with high resolution (up to 0.01 hPa, or 1 Pascal in optimized fine pressure mode).

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.

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Connection variants

- 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	
Pressure connection		2 tube connections, interchangeable with G1/8 universal ports	
Ranges / resolution	Hi	-200.0...+200.0 hPa (mbar) -2.900 ... +2.900 PSI -150.0 ... +150.0 mmHg (Torr)	-2000...+2000 hPa (mbar) -2.000...+2.000 bar -29.00 ... +29.00 PSI -1500 ... +1500 mmHg (Torr)
	Lo	-2000 ... +2000 Pa -20.00 ... +20.00 hPa (mbar) -20.00 ... +20.00 mmHg (Torr)	-200.0 ... +200.0 hPa (mbar) -200.0 ... +200.0 mmHg (Torr)
	In optimized fine mode ^{F,NE}	-200.0 ... +200.0 Pa *)	-2000 ... +2000 Pa *)
Display units		Pa, 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. @ 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	
		F,NE: With 0.1 Pa resolution *)	F,NE: 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 except ports (pressure connections must be protected from soiling and moisture)	
Dimensions		108 x 54 x 28 mm, with connection ca. 122 x 54 x 28 mm	
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: ca. 1 mA (slow measurement SLO)/ with backlight ca 3mA, battery life ca. 3000 h/1000h battery indicator: 4-stage charge status indicator, note for low level: "BAT LO"	

*) select "FVNC F,NE" and start optimized fine function with pressing "ok" 4 sec

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ECO 210-5 Manometer

ORDERING CODE

1.

2.

3.

ECO 210

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1. Measuring range		
3		-2000...2000 Pascal (-20.00...20.00 hPa) -200.0...200.0 hPa dif.
5		-200.0...200.0 hPa -2000...2000 hPa dif.
2. Connection option		
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. Set option		
		Device in carton box, test-protocol, batteries, manual
SET		Device in case GKK 1002, 1 m tube 6x1 PVC, test-protocol, batteries, manual
SET		For -MCM: Device in case GKK 1002, 1 m tube 6x1 PVC, test-protocol, batteries, manual, 2 quick connect sockets GDZ-MCF
SET 8		Device in case GKK 1002, incl. 1 m silicone tube 8 mm, test-protocol, batteries, manual
WPD		Device in case GKK 1002, 1 m tube 6x1 PVC, factory calibration WPD5, not DAkkS accredited, batteries, manual
8COVER		Device in carton box, 1 m silicone tube 8 mm, protective cover with magnet, test-protocol, batteries, manual

STANDARD ARTICLES

ECO210-3-UT	Fine manometer, 2x G1/8-inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner) Set-Option: Device in carton box, test-protocol, batteries, manual	Art no. 486718
ECO 210-3-UT-SET8	Fine manometer, 2x G1/8-inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner) Set-Option: Device in case GKK 1002, 1 m silicone tube 8 mm, , test-protocol, batteries, manual	Art no. 487010
ECO 210-3-QC6	Fine manometer, 2x G1/8-inch port incl. quick connector for tube with outer-Ø 6 mm Set-Option: Device in carton box, test-protocol, batteries, manual	Art no. 486960
ECO 210-3-UT-8COVER	Fine manometer, 2x G1/8-inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner) Set-Option: Device in carton box, 1 m silicone tube 8 mm, protective cover with magnet, test-protocol, batteries, manual	Art no. 490045
ECO 210-5-UT	Manometer, 2x G1/8-inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner) Set-Option: Device in carton box, test-protocol, batteries, manual	Art no. 486735
ECO 210-5-ST6-WPD	Manometer, 2x G1/8-inch port incl. screw connector for tube with outer-Ø 6 mm Set-Option: Device in case GKK 1002, incl. 1 m tube 6x1 PVC, factory calibration WPD5, not DAkkS accredited, batteries, manual	Art no. 487035

ECO 210-5-QC6

Manometer, pressure connection: 2x G1/8-inch port incl. quick connector for tube with outer-Ø 6mm

Set-Option: Device in carton box, test-protocol, batteries, manual

Art no. 486983

ACCESSORIES

ST-G1000

Protection bag with belt clip

Art no. 611373

G1000-Cover

Rubber protection cover for ECO-Line/G 1000 series, black, incl. 2 neodymium magnets

Art no. 483958

GCLIP1000

Metal belt clip self-adhesive

Art no. 475820

G1000-BASE

ECO-Line table base and wall suspension

Art no. 481885

GDZ-UT

Universal pressure port for tube 6/4 or 8/6 with male thread G 1/8, brass nickel-plated

Art no. 479260

GDZ-QC6

Quick connect for hose 6/4 with male thread G 1/8, brass nickel-plated

Art no. 479261

GDZ-MCM

Mini quick connect coupling plug (nominal diameter 2.7) with male thread G 1/8, brass nickel-plated

Art no. 479467

GDZ-MCF

Mini quick connect coupling socket (nominal diameter 2.7) with screw lock for tube 6/4, seals when plugged off, brass nickel-plated

Art no. 480221

GDZ-01

PVC hose 6/4 (6 mm outside-Ø, 4 mm inside-Ø, 5 bar at 23 °C)

Art no. 601541

GDZ-31

Rubber tube 8/5 (8 mm outside-Ø, 5 mm inside-Ø, 2 bar at 23 °C, max. 200 °C)

Art no. 606070

GKK1002

Case for ECO-Line / G1000 series small, 235 x 185 x 48 mm

Art no. 411907

For more available accessories, visit the Senseca-Website.

OPTIONAL: CALIBRATION

ISO-WPD5

ISO calibration certificate: 5 points rising, 5 points falling

Art no. 602514k

Many other calibration options are available at Senseca, for more information please visit the Senseca-Website