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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 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 of the ECO 210 variants, packed in a compact an water protected housing makes the instruments an ideal partner of industry and craft sector, Made in Germany

ECO line - The reference class in pocketsize.

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 \geq ± 200 hPa (mbar) are to be measured. Up to ± 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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Connection variants

- ① UT connection for tubes 6 x 1 mm
 (4 mm inner) and 8 x 1 mm (6 mm inner)
- 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
- MCM mini male quick coupling nominal diameter 2.7
 (Mini quick connect coupling socket optionally available)

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	standard	-200.0+200.0 hPa (mbar) -2.900 +2.900 PSI	-2000+2000 hPa (mbar) -2.000+2.000 bar -29.00 +29.00 PSI	
	EI) IE	-150.0 +150.0 mmHg (Torr)	-1500 +1500 mmHg (Torr)	
	FINE	-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)	
Display units		Pa, hPa, mbar, PSI, mmHg (Torr)	hPa, mbar, bar, PSI, mmHg (Torr)	
Measuring frequency		Slow: 2,5 measurements per second		
. ,		Fast: 25 measur	ements per second	
Precision typ. @ 25 °C		+/- 0.1 % FSS	+/- 0.1 % FSS	
Precision max. (-2050 °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		
		NULL / Tare function		
Optional special functions		FInE: With 0.1 Pa resolution	FInE: With 1 Pa resolution	
		Hur: Averaging over 2 s / 5 s / 10 s		
Adjustment		Zero point and slope		
		Break-proof ABS housing, protection rating IP67		
Housing		(pressure connections must be protected from soiling and moisture),		
dime		dimensions L \times W \times H: 108 \times 54 \times 8 mm, with connection ca. 122 \times 54 \times 8 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		



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	2 x AA battery (included in the scope of delivery),	
Power supply	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:	

ORDERING CODE		1.		2.		3.
ECO 210	_		-		-	

1.	Measuring range				
		-20002000 Pascal			
	3	(-20.0020.00 hPa)			
		-200.0200.0 hPa dif.			
	5	-200.0200.0 hPa			
	כן	-20002000 hPa dif.			
2.	Connection option				
		2x G1/8-inch port incl. connection for tube 6x1 mm (4 mm inner) or 8x1 mm (6 mm			
	UT	inner)			
		2x G1/8-inch port incl. quick connector for tube with outer-Ø 6 mm			
	QC6				
	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			
For -MCM: Device in case CKK 1002 1 m tube 6v1 PVC test-pr		For -MCM: Device in case GKK 1002, 1 m tube 6x1 PVC, test-protocol, batteries,			
	SET	manual, 2 quick connect sockets GDZ-MCF			
	SET 8	Device in case GKK 1002, incl. 1 m rubber 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			

STANDARD ARTICLES

ECO 210-3-UT	Fine manometer, pressure connection: 2x G1/8-inch port incl. conn 6x1 mm (4 mm inner) or 8x1 mm (6 mm inner) Set-Option: Device in carton box, test-protocol, batteries, manual	
ECO 210-3-UT-SET8	Fine manometer, pressure connection: 2x G1/8-inch port incl. connection for tu 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. 487	
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 in carton box, test-protocol, batteries, manual **Art no. 486960**



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ECO 210-5-UT	Manometer, pressure connection: $2x G1/8$ -inch port incl. connection 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, pressure connection: $2x G1/8$ -inch port incl. screw corwith outer-Ø 6 mm	nnector for tube
	Set-Option: Device in case GKK 1002, incl. 1 m tube 6x1 PVC, facto WPD5, not DAkkS accredited, batteries, manual	ory calibration Art no. 487035
ECO 210-5-QC6	Manometer, pressure connection: $2x G1/8$ -inch port incl. quick con with outer-Ø 6 mm	nector for tube
	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 magnets	neodymium 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, plated	brass nickel- Art no. 479260
GDZ-QC6	Quick connect for hose 6/4 with male thread G 1/8, brass nickel-pla	ated Art no. 479261
GDZ-MCM	Mini quick connect coupling plug (nominal diameter 2.7) with male G 1/8, brass nickel-plated	thread Art no. 479467
GDZ-MCF	Mini quick connect coupling socket (nominal diameter 2.7) with scr 6/4, seals when plugged off, brass nickel-plated	ew lock for tube 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, m	ax. 200 °C) Art no. 606070
GKK1002	Case for ECO-Line / G1000 series, dimensions: $235 \times 185 \times 48 \text{ mm}$	Art no. 411907

For more available accessories, visit the Senseca-Website.



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OPTIONAL: CALIBRATION

ISO-WPD5 ISO calibration certificate: 5 points rising, 5 points falling Art no. 602514

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