

EE600

Differential Pressure Sensor

The EE600 is dedicated for reliable measurement of differential pressure in HVAC, building automation and filter monitoring applications. The multi-range device can be employed for air as well as all non-flammable and non-aggressive gases.

Measurement Performance

The EE600 is available with full scale (FS) 1,000 Pa (4 inch Water Column) and 10,000 Pa (40 inch WC) and offers an outstanding accuracy of \pm 0.5 % FS. Several measuring ranges are selectable with DIP-switches. The piezo-resistive, no flow-through pressure sensing element stands for outstanding long-term stability

9000

Outputs

The measured data is available as analogue voltage and current signals at the spring loaded terminals.

Functional and Robust

Features

The IP65 / NEMA 4 enclosure minimizes installation costs. External mounting holes allow for installation with closed cover, the electronics are thus protected against construction site pollution.

Configurable and Adjustable

Using DIP-switches on the electronics board, the user can select the pressure range, the output signal, the time constant as well as the units and the backlight of the large graphic display. A zero and span point adjustment can be easily performed with push buttons on the electronics board.

Knockout for 1/2" conduit fitting (US) **Graphic display** Multi-range with backlight 0 ... 250 / 500 / 750 / 1000 Pa 0 ... 2500 / 5000 / 7500 / 10000 Pa ± 0.5 % FS accuracy **External mounting holes** Mounting with closed cover Electronics protected against construction site pollution Easy and fast mounting Status LED Test report according **Spring terminals** to DIN EN 10204 - 2.2 User configurable and adjustable **Enclosure** Pressure range IP65 / NEMA 4 protection class Output signal Bayonet screws - open/closed with Response time a 1/4 rotation Display units and backlight Zero and span point adjustment

Technical Data

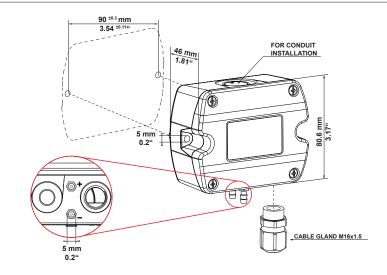
Measured Value

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Differential Pressure (Δp)			
Measurement principle	Piezoresistive, no flow-through		
Measurement range	I: 0250 / 500 / 750 / 1000 Pa (01 / 2 / 3 / 4 inch WC)		
selectable with DIP switches	II: 02500 / 5000 / 7500 / 10000 Pa (010 / 20 / 30 / 40 inch WC)		
Accuracy at 20 °C (68 °F)	± 0.5 % FS		
(incl. hysteresis, non-linearity and repeatability)	FS = full scale (1000 Pa or 10000 Pa)		
Response time t ₉₀	50 ms / 500 ms / 2 s / 4s		
	selectable with DIP switches ¹⁾		
Temperature dependency	typ. < 0.03 % from FS/K		
Long-term stability	< 0.5 % from FS/year		
Overload limits			
01000 Pa (4 inch WC)	± 10000 Pa (± 40 inch WC)		
010000 Pa (40 inch WC)	± 80000 Pa (± 320 inch WC)		
Outputs			
Analogue outputs	0-5 V or 0-10 V $-1 \text{ mA} < I_{L} < 1 \text{ mA}$		
selectable with	and ²⁾		
DIP switches ¹⁾	0-20 mA or 4-20 mA (3-wire) R _L ≤ 500 Ohm		
General			
Power supply	15-35 V DC or 24 V AC ±20 %		
Current consumption	typ. 18 mA (without display)		
at 0 Pa / 24 V DC	typ. 43 mA (with display and backlight) Graphic, with backlight		
Display			
Display units	Pa, mbar, inch WC, kPa		
	selectable with DIP switches ¹⁾		
Connection	Spring terminals, max. 1.5 mm ²		
Housing material	Polycarbonate, UL94V-0 (with display UL94HB) approved		
Protection class	IP65 / NEMA 4		
Cable gland	M16 x 1.5 EN61326-1		
Electromagnetic compatibility			
	EN61326-2-3		
Humidity range	095 % RH (non condensing) Operation: -2060 °C (-4140 °F)		
Temperature ranges			
	Storage: -4070 °C (-40158 °F)		

¹⁾ Factory setup: Measurement range 0...100%; Response time t_{s0} :50 ms; Display unit: Pa; Display backlight: on; Analogue outputs: 0-10 V and 4-20 mA 2) Voltage and current output signals available simultaneously at the spring loaded terminals.

Dimensions (mm/inch)



Pressure fittings Ø 5mm

+ : High pressure - : Low pressure

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Pressure connection set:

2 m $_{
m (6.6~ft)}$ PVC hose with two ABS pressure connection nipples. For details see operation manual and data sheet "Accessories".



Ordering Guide_____

			EE600
	Measuring range	01000 Pa (04 inch WC, 0-10 mbar, 0-1 kPa)	HV52
		010000 Pa (040 inch WC, 0-100 mbar, 0-10 kPa)	HV53
	Display	without display	no code
		with display	D2

Order Examples ___

EE600-HV52

Measuring range: 0...1000 Pa (0...4 inch WC, 0-10 mbar, 0-1 kPa)

Display: without display

EE600-HV53D2

Measuring range: 0...10000 Pa (0...40 inch WC, 0-100 mbar, 0-10 kPa)

Display: with display

