

# TRP17 Series

## Differential pressure transmitter

Ref : 2852

Rev : B



## DESCRIPTION

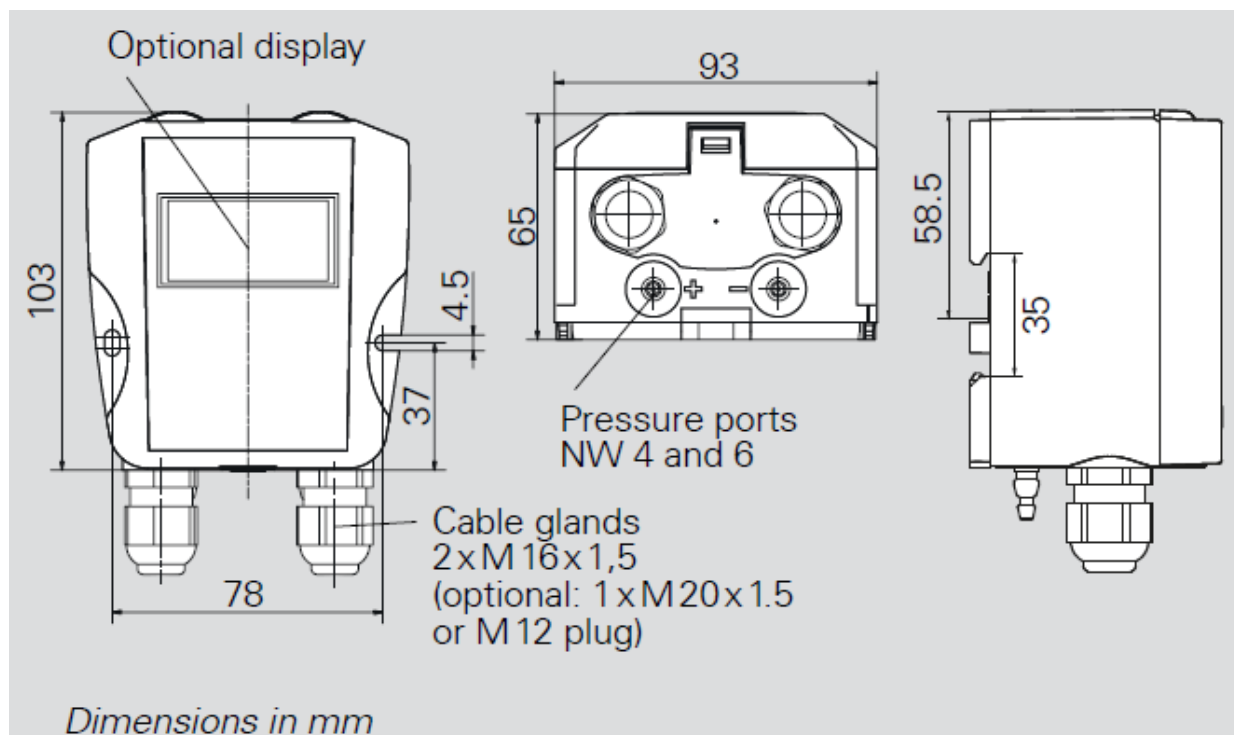
The TRP17 differential pressure sensor is a compact instrument particularly well suited for monitoring filters and pressures in standard HVAC applications, clean rooms, ... DIP switches allow user to configure the output signal and switchable measurement ranges (optional). The sensor offers an option to convert to a root-extracted output signal (displayed as % of maximum output value). An internal button enables to correct the zero-point or refine the final value. The sensor is placed in an ABS housing offering IP67 protection and allowing either a simple wall mounting (with 2 screws) or a mounting on DIN rails.

## TECHNICAL CHARACTERISTICS

PARAMETRES	VALEURS
Measuring ranges (also $\pm$ measurements)	50 / 100 / 200 / 500 Pa 1 / 2.5 / 5 / 10 kPa
Type of pressure	Differential
Measurement accuracy	$\pm 1$ % of the set value plus $\pm 0.5$ Pa (for measurement ranges $\leq 250$ Pa plus $\pm 1$ Pa)
Temperature coefficient span	0.1 % of max. value / K
Temperature coefficient zero point	0.1 % of max. value / K
Max. system pressure	$\pm 25$ kPa measurement ranges $\leq 250$ Pa $\pm 50$ kPa measurement ranges $> 250$ Pa
Medium	Dry air, all non-aggressive and non-flammable gases
Step response time	25 ms
Calibration temperature	22 °C
Operational temperature range	-10 ... 70 °C, with display 0 ... 50 °C
Storage temperature	-10 ... 70 °C, with display -5 ... 55 °C
Air humidity	0 ... 80 % RH
Weight	Approx. 200 g
Power consumption	$< 1$ W (optional relay : $< 4$ W)
Pressure ports	for tubing NW 4 and 6 mm
Protection class	IP 67
Certificates	CE / UKCA

- ✓ Compact differential pressure transmitter for standard cleanroom applications in cleanrooms, machines, HVAC or filter monitoring...
- ✓ Rugged ABS housing with IP67 protection for DIN rail or wall mounting
- ✓ Measurement ranges in  $\pm$  and/or asymmetric
- ✓ Choice between a fixed measuring range or 4 different measurement ranges
- ✓ Pressure unit Pa or kPa (linear output signal)
- ✓ Zero-point correction via internal pushbutton or digital input
- ✓ Possibility of conversion to square-root output signal (displayed as % of maximum output value)
- ✓ Configurable with DIP switches
- ✓ With screen (optional)
- ✓ 2-wire system (ZWL) or relay (6A)

## DIMENSIONS (mm)



## ORDER INFORMATION

Order Code	A	B	C	D	E	F	G
<b>TRP17</b>	-	-	-	-	-	-	-

<b>Output</b> → 0...10 V ( $R_L \geq 50 \text{ k}\Omega$ ) <b>A</b> 1 → 2...10 V ( $R_L \geq 50 \text{ k}\Omega$ )    2 → 0...20 mA ( $R_L \leq 500 \Omega$ )    0 → 4...20 mA ( $R_L \leq 500 \Omega$ )    4	<b>Contact point</b> <b>D</b> → none    0  → 1 relay (exchange contacts)    1 Max 230 V AC, 6A (not for 2-wire)	<b>Power supply</b> <b>B</b> → 24 VAC/DC 50/60 Hz AC/DC ± 10% reverse pole protection  → 15...32 VDC    ZWL (only for A = 4)  → 24 VDC    VDC (with galvanic separation)	<b>Display</b> <b>E</b> → none    0  → 3 <sup>1</sup> / <sub>2</sub> digits    1	<b>Step response time (*)</b> <b>F</b> → 25 msec    025  → 1 sec    1 → 4 sec    4 → 10 sec    10  <i>*factory preset, configurable via button</i>	<b>Electrical connection</b> <b>G</b> → Spring-type terminal, 2xM16 cable glands    16  → Spring-type terminal M20 cable glands    20  → M12 plug    12
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<b>Measuring range</b> <b>C</b> → Standard (see <i>Technical characteristics sheet</i> )  → Switchable between 50/100/200/250 Pa    1 → Switchable between 100/200/750 Pa/1.25 kPa    2 → Switchable between 250/500 Pa/1/2.5 kPa    3 → Switchable between 1/2.5/5/10 kPa    4 → Switchable between ±50/±100/±200/±250 Pa    1A → Switchable between ±100/±200/±750 Pa/±1.25 kPa    2A → Switchable between ±250/±500 Pa/±1/±2.5 kPa    3A → Switchable between ±1/±2.5/±5/±10 kPa    4A
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## CONTACT

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