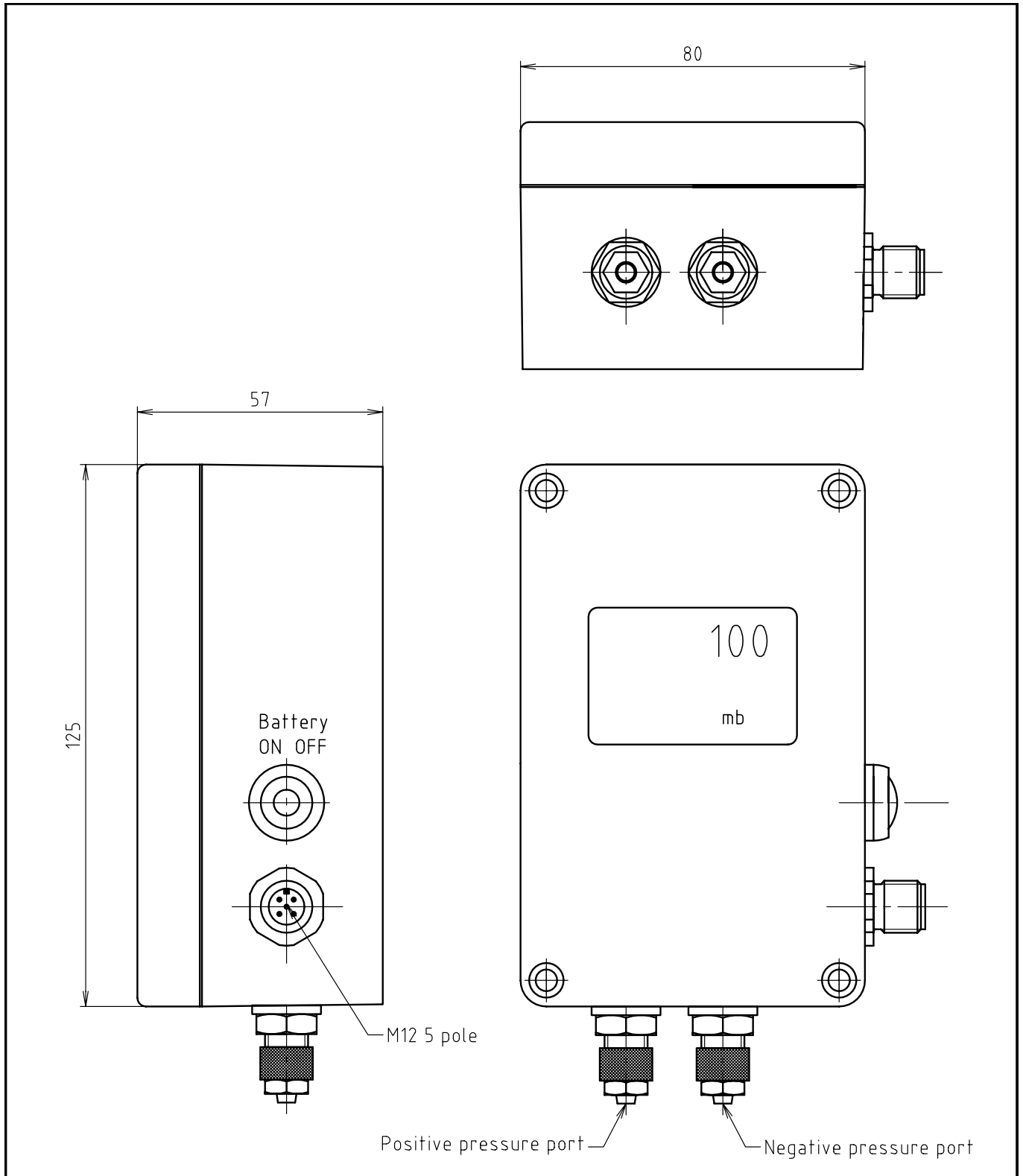


DIFFERENTIAL PRESSURE TRANSMITTER WITH DIGITAL DISPLAY PDR 0.1 D



DESCRIPTION

PDR 0.1 D is a combination of a differential pressure sensor and a signal conditioner with digital display. The electronics placed in the AI-box supplies the sensor and generates a standard analog output signal 4 – 20 mA. The pressure is displayed at the front of the box.

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H F JENSEN
SENSOR TECHNOLOGY

SPECIFICATIONS

Ranges	100 mbar
Non-linearity and hysteresis	< ± 0.5 % of FSO from best fit straight line
Overpressure	200% FS positive pressure port. * 100% FS negative pressure port.*
Line pressure	9 bar max. less than 1 % zero shift.
Pressure media	Gasses and fluids compatible with AISI 316L + Viton
Output signal	4 - 20 mA, 3-wire, $R_L < 500 \Omega$, $C_L < 1 \mu F$
Power requirement	12 - 30 V, max 25 mA or 9 V E-block battery
Display	5 numerical digits, 3 digits for units and 6 indicators
Response time	1 second
Temperature range	-10 °C to +70 °C working 0 °C to +50 °C compensated
Thermal zero shift	< ± 1 % of FSO (0 - 50 °C) with reference to 25 °C
Thermal sensitivity shift	< ± 1 % of FSO (0 - 50 °C) with reference to 25 °C
Pressure connections	Bulkhead connector for tube 6/4 - M10x1 Tube polyester polyurethane 6/4 Max pressure 9 bar up to 30 °C decreasing to 6 bar at 50 °C
Electrical connections	M12 Connector 1. Output signal 2. Power input 3. 0 V 4. RS 232 optional 5. RS 232 optional
ON/OFF button	To disconnect battery from electronics
Environmental conditions - vibration - shock - electromagnetic immunity/emission	According to IEC 68-2-6: 10-150 Hz, 0.35 mm/5 g According to IEC 68-2-27: 200 g half sine, 1 ms According to EN 61326
Weight	About 800 g
Protection class	IP65

* The pressure on the positive pressure port must exceed the pressure on the negative pressure port.

INSTALLATION

Mount the transmitter directly to a base using the 2 mounting holes in the Al-box. Remove the protection caps and connect pressure supplies to the positive and negative pressure ports. Use only shielded cables for electrical connection. The cable shield should be connected to the EMC-reference of the associated electronics.

ORDERING INFORMATION

PDR 0.1 D