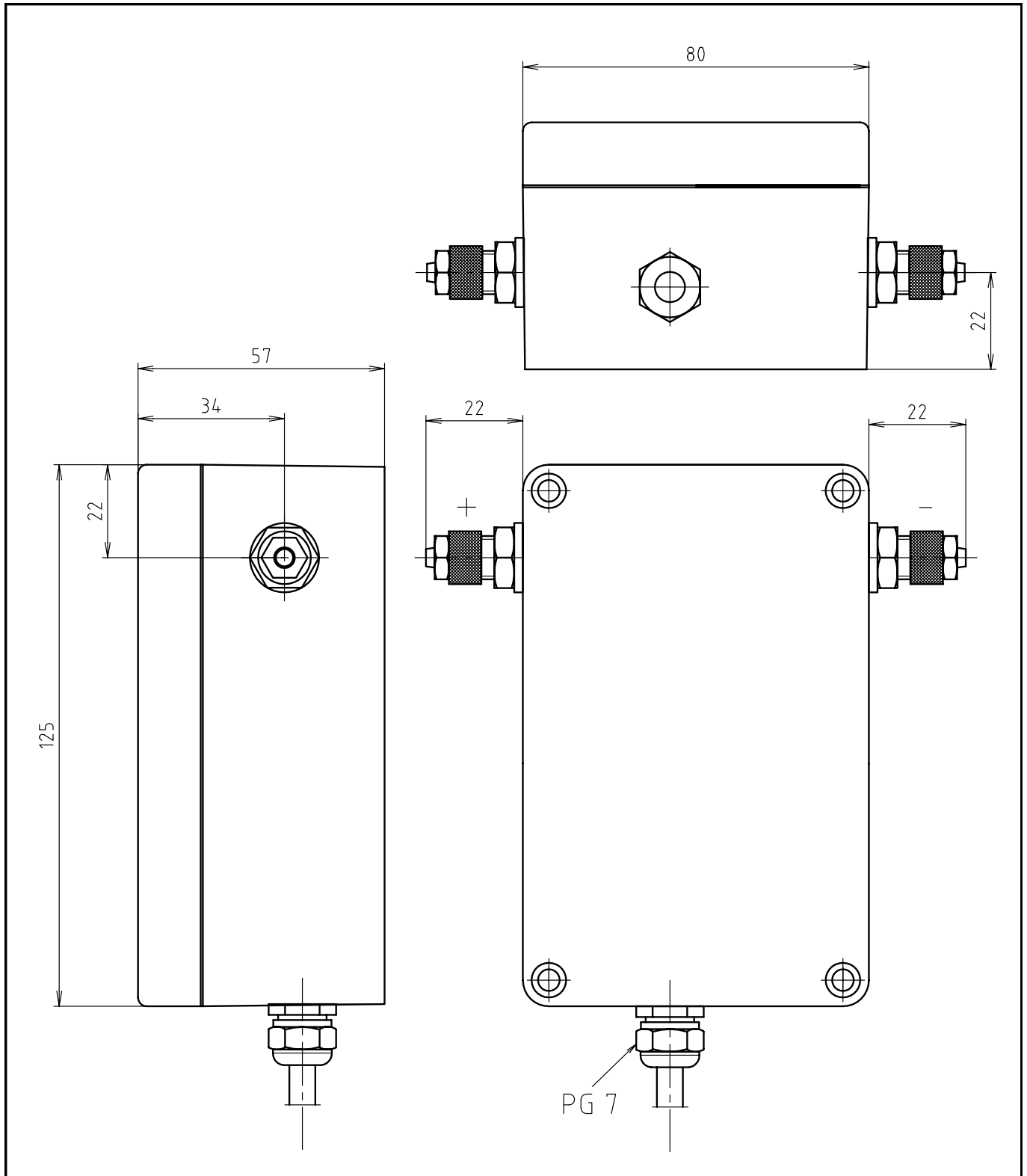


# DIFFERENTIAL PRESSURE TRANSMITTER TYPE PDM 0.1 D (preliminary)



## DESCRIPTION

PDM 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 mA – 20mA<sub>DC</sub> in parallel with the displayed pressure.

2009 -11-12

H F Jensen A/S  
Emdrupvej 70, DK-2400 Kbh NV  
www.hfjensen.dk

Tel: +45 39 53 60 40  
Fax: +45 39 53 60 48  
info@hfjensen.dk

2.2.6

**H F JENSEN**  
SENSOR TECHNOLOGY

## SPECIFICATIONS

<b>Ranges</b>	0 – 100 mbar (other ranges possible)
<b>Non-linearity and hysteresis</b>	< $\pm 0.5$ % of FSO from best fit straight line
<b>Overpressure</b>	200% FS positive pressure port. * 100% FS negative pressure port.*
<b>Line pressure</b>	10 bar max. less than 1 % /10 bar zero shift.
<b>Pressure media</b>	Gasses and fluids compatible with AISI 316L + Viton
<b>Output signal</b>	4 mA – 20 mA <sub>DC</sub> , 3-wire, R <sub>L</sub> < 500 $\Omega$ , C <sub>L</sub> < 1 $\mu$ F
<b>Power requirement</b>	12-30 V <sub>DC</sub> , max 25 mA <sub>DC</sub>
<b>Display (inside Al box)</b>	5 numerical digits, 3 digits for units and 6 indicators
<b>Response time</b>	1 sec.
<b>Temperature range</b>	-10 °C to +70 °C working 0 °C to +50 °C compensated
<b>Thermal zero shift</b>	< $\pm 1$ % of FSO (0 - 50 °C) with reference to 25 °C
<b>Thermal sensitivity shift</b>	< $\pm 1$ % of FSO (0 - 50 °C) with reference to 25 °C
<b>Pressure connections</b>	Bulkhead connector for tube 6/4 - M10x1
<b>Electrical connections</b> <b>Cable type: Raychem-CL105-2 x 2 x - 0.75 PO</b> <b>0.6/1KV</b> <b>Cable length: 3 m</b>	Wire 1. (blue) : Supply. Wire 2. (white): 0V Wire 3. (blue) : I <sub>out</sub> mA Wire 4. (white): 0V 4. RS 232 (not connected) 5. RS 232 (nor connected)
<b>Environmental conditions</b> - vibration - shock - electromagnetic immunity/emission	According to IEC 68-2-6: 10-150 Hz. 0,35 mm/5g According to IEC 68-2-27: 200 g half sine, 1 ms According to EN 61326
<b>Weight</b>	About 650 g
<b>Protection class</b>	IP65

\* The pressure on positive pressure port shall 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 connection. The cable shield should be connected to the EMC-reference of the associated electronics.

## ORDERING INFORMATION: PDM 0.1 D