



Model VMEPT1130 series
OEM Pressure transmitter Ceramic
pressure sensor
For aggressive media application



Features

- Measuring ranges from 200mbar to 50bar
- Gauge pressure, Absolute pressure
- Accuracy: $\pm 0.5\% \text{FSO}(\text{Typ.})$, $\pm 1.0\% \text{FSO}(\text{Max.})$
- Calibrated and temperature compensated
- Ceramic pressure sensor
- Output 4...20mA, 1...5 VDC, 0.5...4.5 VDC etc.

Application

- Energy industry
- Medical technology
- Environmental industry

Technical data

Performance	
Accuracy*	$\pm 0.5\% \text{FS}@25^\circ\text{C}(\text{Typ.})$ $\pm 1.0\% \text{FS}@25^\circ\text{C}(\text{Max.})$ ¹⁾
Operating Temperature Range	0 to 50°C
Compensated Temperature Range	0 to 50°C
Overpressure	150%FS
Vibration	10 g RMS(20 to 2000Hz)
Shock	100 g(11ms)
Cycles	10x10 ⁵
Long Term Stability	$\pm 0.3\% \text{FS}$

Electrical @25°C	
Output signal / Supply	2-wire 4...20 mA / V _s = 10... 30 VDC
	3-wire 1...5 VDC / V _s = 10... 30 VDC
	3-wire 0...5 VDC / V _s = 10... 30 VDC
	3-wire 0...10 VDC / V _s = 12... 30 VDC
	3-wire 0.5...4.5 VDC / V _s = 8... 30 VDC
	3-wire 0.5...4.5 VDC ratiometric / V _s = 5 V ± 0.1 VDC
	4-wire RS485 Modbus RTU / V _s = 12... 30 VDC
	Insulation Resistance
EMC Test	IEC61000-4-2/IEC61000-4-3
Reverse polarity protection	No damage – no function

Physical Specifications	
Housing	SUS304 stainless steel
Diaphragm	Ceramic (96% Al ₂ O ₃)
Pressure port material	PVDF,PP,PTFE
Protection	IP65
Sensor sealing	FKM/FFKM
Weight	~150g

¹⁾ Linearity (best straight line) + Hysteresis + Repeatability

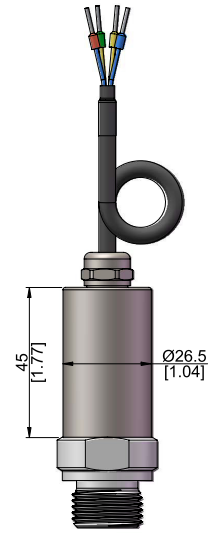
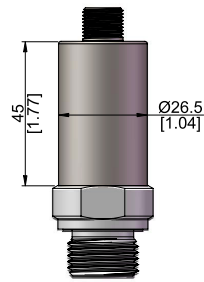
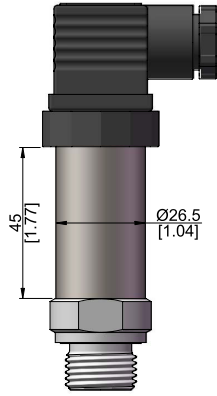


Dimensions in mm [in]

Code E1
DIN175301-803A/DIN43650/IP65

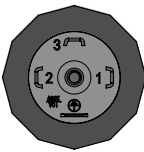
Code E2
Circular connector M12x1(4-pin)/IP66


Code E4
Cable outlet,1.5m/IP67

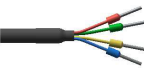


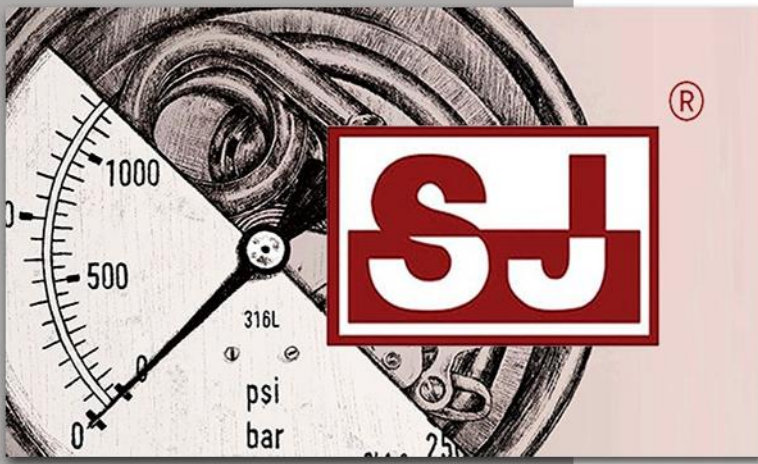
For D1~D2 output: Length of housing increases by 20 mm

Electrical connections

DIN175301-803A /DIN43650	4...20 mA		0...10 VDC 0...5VDC 0.5...4.5VDC	RS485
	2-wire	3-wire	3-wire	4-wire
 +Vcc	1	1	1	1
OUT	2	3	-	-
GND	-	2	2	2
RS485A	-	-	-	3
RS485B	-	-	-	⊕

Circular connector M12x1(4-pin)	4...20 mA		0...10 VDC 0...5VDC 0.5...4.5VDC	RS485
	2-wire	3-wire	3-wire	4-wire
 +Vcc	1	1	1	1
OUT	3	4	-	-
GND	-	3	3	3
RS485A	-	-	-	2
RS485B	-	-	-	4

Cable outlet	4...20 mA		0...10 VDC 0...5VDC 0.5...4.5VDC	RS485
	2-wire	3-wire	3-wire	4-wire
 +Vcc	Red	Red	Red	Red
OUT	Green/Black	Yellow	-	-
GND	-	Green	Green	Green
RS485A	-	-	-	Yellow
RS485B	-	-	-	Blue



rsIMAC

Elementos For Manufacturing Processes



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