



# Model VMEPT1120-C series

OEM Pressure transmitter  
Stainless steel flush diaphragm  
For viscous and particle-laden media



## Features

- Measuring ranges from 100mbar to 25bar
- Gauge pressure, Absolute pressure
- Accuracy:  $\pm 0.25\% \text{FSO}(\text{Typ.})$ ,  $\pm 0.5\% \text{FSO}(\text{Max.})$
- Calibrated and temperature compensated
- Stainless steel flush diaphragm
- Output 4...20mA, 1...5 VDC, 0.5...4.5 VDC, RS485 etc.

## Application

- Papermaking
- Process control systems
- Food and beverages
- Medical

## Technical data

Performance	
Accuracy	$\pm 0.25 \% \text{FS}@25^\circ\text{C}(\text{Typ.})$ $\pm 0.5 \% \text{FS}@25^\circ\text{C}(\text{Max.})$ <sup>1)</sup>
Operating Temperature Range	-20 to 85°C, -20 to 150°C
Compensated Temperature Range	0 to 70°C
Temp. Coeff – Zero/Span	$\pm 0.75\% \text{FS}[\text{Typ.}]$ , $\pm 1.5\% \text{FS}[\text{Max.}]$
Overpressure	150%FS
Vibration	20 g RMS(20 to 2000Hz)
Shock	100 g(11ms)
Cycles	$10 \times 10^5$
Long Term Stability	$\pm 0.3 \% \text{FS}$

Electrical @25°C	
Output signal / Supply	2-wire 4...20 mA / $V_s = 10...30 \text{ VDC}$
	2-wire 4...20 mA+HART / $V_s = 12...30 \text{ VDC}$
	3-wire 1...5 VDC / $V_s = 10...30 \text{ VDC}$
	3-wire 0...5 VDC / $V_s = 10...30 \text{ VDC}$
	3-wire 0...10 VDC / $V_s = 12...30 \text{ VDC}$
	3-wire 0.5...4.5 VDC / $V_s = 8...30 \text{ VDC}$
	3-wire 0.5...4.5 VDC ratiometric / $V_s = 5 \text{ V} \pm 0.1 \text{ VDC}$
	3-wire 0.5...2.5 VDC / $V_s = 3.3 \text{ V} \pm 0.1 \text{ VDC}$
	3-wire 0.5...2.5 VDC / $V_s = 5 \text{ V} \pm 0.1 \text{ VDC}$
	4-wire RS485 Modbus RTU / $V_s = 12... 30 \text{ VDC}$
4-wire I <sup>2</sup> C / $V_s = 3.3...5 \text{ VDC}$	
Insulation Resistance	100 MΩ@100VDC
EMC Test	IEC61000-4-2/IEC61000-4-3
Reverse polarity protection	No damage – no function

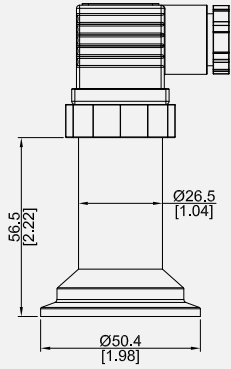
Physical Specifications	
Housing	SUS304 stainless steel
Diaphragm	SUS316L stainless steel
Oil Filling	Silicone oil
Protection	IP65
Weight	~300g

<sup>1)</sup> Linearity (best straight line) + Hysteresis + Repeatability

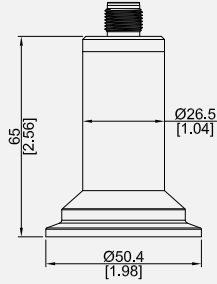


Dimensions in mm [in]

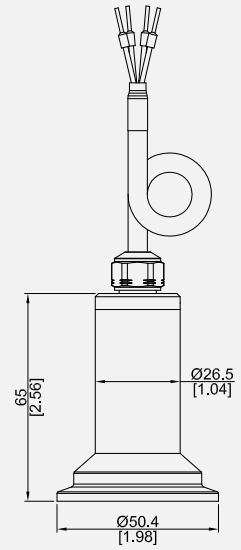
Code E1  
DIN175301-803A/DIN43650/IP65



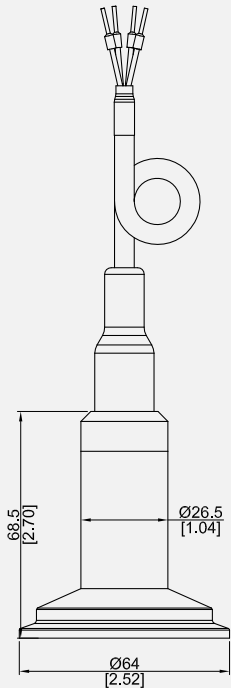
Code E2  
Circular connector M12x1(4-pin)/IP66



Code E4  
Cable outlet,1.5m/IP67



Code E5  
Cable outlet,1.5m/IP68



D1~D3 output: Length of housing increases by 20mm

**Process connections in mm [in]**

	D	
Tri-Clamp 1-½"	50.5	
Tri-Clamp 2"	64	

Medium Temperature -20 to 150°C

	D	L
Tri-Clamp 1-½"	50.5	24.5
Tri-Clamp 2"	64	24.5

**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
	OUT	2	3	-
	GND	-	2	2
	RS485A	-	-	3
	RS485B	-	-	⊕

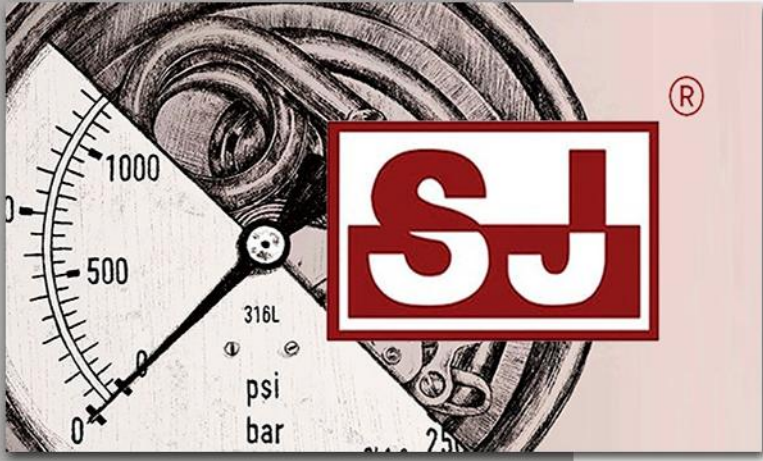
Circular connector M12x1(4-pin)	4...20 mA		0...10 VDC 0...5VDC 0.5...4.5VDC	RS485
	2-wire	3-wire	3-wire	4-wire
	+Vcc	1	1	1
	OUT	3	4	-
	GND	-	3	3
	RS485A	-	-	2
	RS485B	-	-	4

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
	OUT	Green/Black	Yellow	-
	GND	-	Green	Green
	RS485A	-	-	Yellow
	RS485B	-	-	Blue

**Range code**

Code	Nominal pressure [bar]	Gauge	Sealed gauge	Absolute
01	0...0.1	✓		
02	0...0.2	✓		
03	0...0.35	✓		✓
04	0...0.7	✓		✓
05	0...1	✓		✓
06	0...1.6	✓		✓
07	0...2.5	✓		✓
08	0...4	✓		✓
09	0...6	✓		✓
10	0...10	✓		✓
11	0...16	✓		✓
12	0...25	✓		✓

Code	Nominal pressure [bar]	Gauge	Sealed gauge	Absolute
20	-0.1...+0.1	✓		
21	-0.2...+0.2	✓		
22	-0.5...+0.5	✓		
23	-1...0	✓		
24	0...-1	✓		
25	-1...+1	✓		
26	-1...+1.6	✓		
27	-1...+2.5	✓		
28	-1...+4	✓		
29	-1...+6	✓		
30	-1...+9	✓		
31	-1...+10	✓		
32	-1...+16	✓		
33	-1...+25	✓		
34	0.8...2	✓		✓



# rsIMMA

*Elementos For Manufacturing Purposes*



## **MEXICO BRANCH OFFICE**

Roberto Diaz No. 401  
Ciudad Industrial  
Aguascalientes, Ags.  
México  
20290

[4ManPro@4ManPro.com](mailto:4ManPro@4ManPro.com)

+52 (449) 171 3420

[www.4ManPro.com/SPA/](http://www.4ManPro.com/SPA/)

## **USA BRANCH OFFICE**

708 Main St.  
10<sup>th</sup> Floor  
Houston, Tx, USA  
77002

[4ManPro\\_USA](mailto:4ManPro_USA@4ManPro.com)

[@4ManPro.com](mailto:@4ManPro.com)

+1 (832) 871 5022

[www.4ManPro.com/ENG/](http://www.4ManPro.com/ENG/)