

RoHS Compliant

## Manosys Pressure Transmitter: EMT1

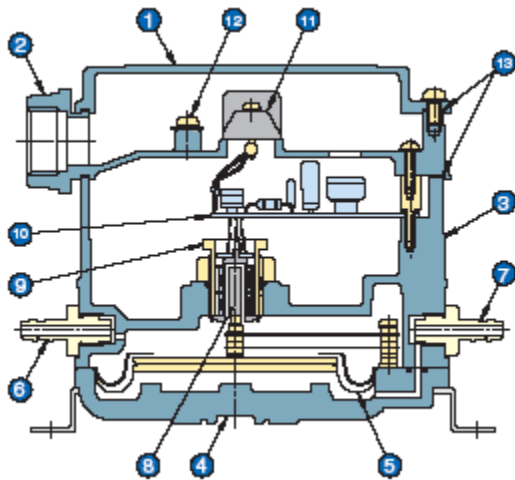
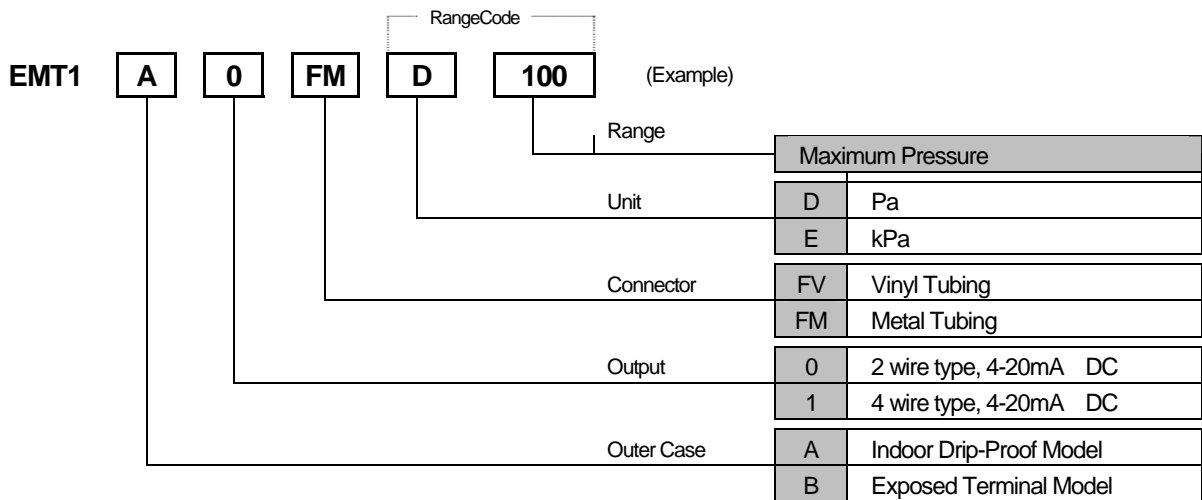


EMT1A



EMT1B

### Product Code Naming



#	Name
1	Cover
2	Terminal Box
3	Housing
4	Base
5	Diaphragm
6	Connector (H)
7	Connector (L)
8	Core
9	Coil Bobbin
10	PC Board
11	Terminal Base
12	Ground Terminal Screw
13	Cover Gasket

**Specifications**

<b>Model</b>	Indoor, drip-proof model	Exposed terminal model
	EMT1A	EMT1B
<b>Units</b>	Pa, kPa	
<b>Type of Measurement</b>	Differential pressure	
<b>Mechanism</b>	Diaphragm (Silicone Rubber)	
<b>Gases Measured</b>	Air and non-corrosive gases (no liquids)	
<b>Outer Casing</b>	Aluminum die-cast with gray paint	
<b>Maximum Pressure</b>	500kPa	
<b>Installation</b>	Horizontal, facing upward ( $0^\circ \pm 5^\circ$ )	
<b>Electric Signal Conversion</b>	Variable inductance	
<b>Insulation Resistance</b>	Btw. terminal & ground: $>20M\Omega$ (500V DC megger)	
<b>Operating Temperature</b>	$0^\circ\text{C} \sim 50^\circ\text{C}$ (no icing)	
<b>Operating Humidity</b>	$<90\%RH$ (no condensation)	
<b>Vibration Resistance</b>	5~10Hz Total Amplitude 10mm, 10~50Hz Accelerated Amplitude $39\text{m/s}^2$ (2 hours in each triaxial direction)	
<b>Shock Resistance</b>	$100\text{m/s}^2$ (6 times in each triaxial direction)	
<b>Applicable Tubing</b>	<ul style="list-style-type: none"> <li>- Vinyl or rubber tubing (ID 6 mm), for use with vinyl tubing connector</li> <li>- Metal tubing (<math>OD 6 \pm 0.1\text{mm}</math>), for use with metal tubing connector</li> <li>- Hard plastic tubing (OD 6 X ID 4) for use with metal tubing connector</li> </ul> <p style="text-align: right;">Optional inner sleeve set (XIN6x4) required.</p>	
<b>Weight</b>	EMT1A: Approx: 1100g, EMT1B: Approx 960g	

Pressure Range Code	Pressure Range	Accuracy at 20°C	Temperature Drift (0~40°C)	Diaphragm Pressure Resistance	Output & Transmittance		
D10 D20 D30	0~10 Pa 0~20 Pa 0~30 Pa	±2%F.S.	±0.2%F.S./°C	10kPa	2-wire type: Output signal 4~20 mA DC (load resistance less than 500Ω) Power supply 24V DC±10% (ripple less than 0.2V P-P)		
D50 D100 D200 D300 D500 D1000	0~50 Pa 0~100 Pa 0~200 Pa 0~300 Pa 0~500 Pa 0~1000 Pa	Up to ±1%F.S.	Up to ±0.1%F.S./°C				
E2 E3 E5 E10 E20	0~2 kPa 0~3 kPa 0~5 kPa 0~10 kPa 0~20 kPa					40 kPa	
E30 E50	0~30 kPa 0~50 kPa					100 kPa	
D ± 10 D ± 20 D ± 30	± 10Pa ± 20Pa ± 30Pa	Up to ±2%F.S.	Up to ±0.2%F.S./°C			10 kPa	4-wire type: Output signal 4~20 mA DC (load resistance less than 500Ω) Power supply 100V AC±10% 50/60Hz
D ± 50 D ± 100 D ± 200 D ± 300 D ± 500 D ± 1000	± 50Pa ± 100 Pa ± 200Pa ± 300Pa ± 500Pa ± 1000Pa		Up to ±0.1%F.S./°C			10 kPa	
E ± 2 E ± 3 E ± 5	± 2 kPa ± 3 kPa ± 5 kPa		Up to ±1%F.S.			20 kPa	

- For the measurement of flammable gases, or for use in a flammable atmosphere, please use intrinsically-safe explosion-proof model EMT1H.
- Do not install in downward facing or vertical position

For more information, please contact:

**Bellex International Corporation**

200 Bellevue PKWY, Suite 180

Wilmington, DE 19809, USA

Tel: 302-791-5180, Fax: 302-791-5190,

[www.bellexinternational.com](http://www.bellexinternational.com)