

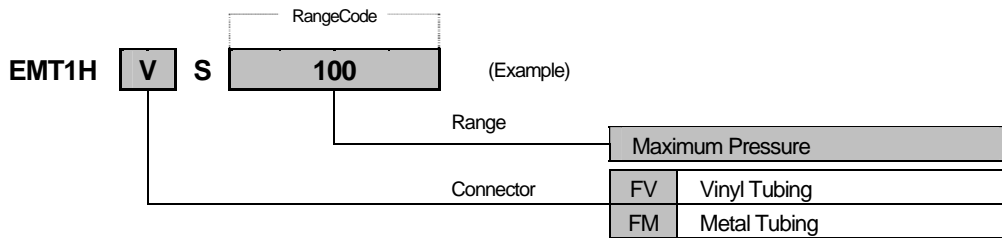
Manosys Intrinsically-Safe Explosion-Proof Pressure Transmitter: EMT1H

Explosion Proof Grade: i3aG4



EMT1H

Product Code Naming



Safety barrier is available only with pressure transmitter.

System Specifications

Model	EMT1H
Construction	Pressure transmitter EMT1H & Safety Barrier MTL787S+
Explosion-proofing	Intrinsically-safe Explosion-proof construction
Applicable Gas	3aG4
Intrinsically-safe Circuit	External Wire Conditions: Resistivity: Less than 10Ω Capacitance: Less than 0.03uF Inductance: Less than 1mH
Specifications: EMT1H	
Units	Pa, kPa
Type of Measurement	Differential pressure
Gases Measured	Air & non-corrosive gases (no liquids)
Mechanism	Diaphragm (silicon rubber)
Outer Casing	Aluminum die-cast with gray paint
Maximum Pressure	500kPa
Standard Installation	Horizontal, facing upward (0°C ± 5°C)
Signal Transmittance	Variable inductance
Insulation Resistance	Terminal to ground terminal: over 20MΩ or more (500V DC megger)
Voltage Resistance	Safe terminal to ground terminal: AC500V 50/60Hz 1 min.
Operating Temperature	0°C ~40°C (no icing)
Operating Humidity	90%RH or less (no condensation)

Vibration Resistance	5~10Hz Total Amplitude 10mm				
Shock Resistance	10~50Hz Accelerated Amplitude 39m/s ² (2 hours in each triaxial direction)				
Applicable Tubing	100m/s ² (6 times in each triaxial direction)				
	- Vinyl or rubber tubing (ID 6 mm), for use with vinyl tubing connector				
	- Metal tubing (OD 6mm ± 0.1), for use with metal tubing connector				
	- Hard plastic tubing (OD 6 X ID 4)				
	Inner sleeve set (XIN6x4) for use with metal tubing connector sold separately				
Weight	Approx. 1,100g				
Specifications: MTL787S+					
Maximum Voltage: Safe Circuit	28.76V				
Maximum Current: Safe Circuit	93mA				
Maximum Power: Safe Circuit	0.655W				
Weight	Approx. 120g				
Allowable Voltage: Non-Safe Circuit	AC250V 50/60Hz, DC250V				
Voltage, Current Specification	DC25.5V 50mA				
Accessories	TKA-SMC7 Flat Surface Connectors (2)				
Pressure Range Code	Pressure Range	Accuracy at 20°C	Temperature Drift(0~40°C)	Diaphragm Pressure Resistance	Output & Transmittance
10	0~10 Pa	± 2% F.S.	± 0.2% F.S./°C	10kPa	2-wire type: Output signal 4~20mA DC (load resistance less than 500Ω) Power supply 24V DC±10% (ripple less than 0.2V P-P)
20	0~20 Pa				
30	0~30 Pa				
50	0~50 Pa	± 1% F.S.	± 0.1% F.S./°C		
100	0~100 Pa				
200	0~200 Pa				
300	0~300 Pa				
500	0~500 Pa				
1K	0~1 kPa				
2K	0~2 kPa			40 kPa	
3K	0~3 kPa				
5K	0~5 kPa				
10K	0~10 kPa	100 kPa			
20K	0~20 kPa				
30K	0~30 kPa	10 kPa			
50K	0~50 kPa				
±10	±10Pa	± 2% F.S.	± 0.2% F.S./°C		
±20	±20Pa				
±30	±30Pa				
±50	±50Pa	± 1% F.S.	± 0.1% F.S./°C		
±100	±100 Pa				

Do not install in downward facing or vertical position

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