Manostar transmitter

EMTGP1



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EMTGP1

Specifications

Model	Indoor drip-proof type			Exposed terminal type		
Woder	EMTGP1A			EMTGP1B		
ressure unit	Pa, kPa					
Pressure neasurement nethod	Single pressure type (negative pressure measurement)					
leasured gas	Corrosive gas (sulfuric acid gas cannot be measured; for details, contact us)					
ressure-receiving lement	Diaphragm					
Mounting orientation	Horizontal (inclination angle of within ± 5°)					
Operating ambient emperature	10°C to 40°C					
Dperating ambient numidity	90% RH or below (no condensation allowed)					
Material of gas- contacting part	Diaphragm PEEK film and molded item Base PEEK molded item					
Exterior material	Main body: aluminum die casting, painting on exterior (paint color: gray)					
Electric signal conversion method	Variable inductance					
Dutput and ransmission nethod	Output signal of 4 to 20 mA DC (load resistance of 500 Ω or lower) Power voltage of 24 V DC \pm 10% (ripple of 0.2 V P-P or lower)					
nsulation	Between terminal and case: 20 M Ω or higher (500 V DC megger)					
esistance Durable impact	5 to 10 Hz, amplitude of 10 mm, 10 to 50 Hz, acceleration of 39 m/s² (two hours each for three axial directions)					
Ourable vibration	100 m/s ² (six times each for three axial directions)					
Base mounting screw size	Internal thread for general U.S. pipes 1/4-18NPT					
Mass	EMTGP1A type: approx. 980 g EMTGP1B type: approx. 860 g					
		- 9				
Pressure range	_	Accuracy	Temperature ch		Pressure-receiving	Withstanding pressure of pressure-receiving element (Refer to page 118)
code	Pressure range	(at 20°C)	(each for zero at 10°C to		element material	
D - 200	0 to -200 Pa					
D - 300	0 to −300 Pa					
D - 500	0 to −500 Pa	±2.5% FS	±0.15%	FS/°C	PEEK film	—10 kPa
D - 1000	0 to -1000 Pa					
E- 2	0 to −2 kPa					

◆This instrument cannot measure combustible gas.

◆Do not install this product in an explosion hazard area.

Although this product is corrosion resistant, it may not be used depending on the type or concentration of the corrosive gas and the use environment. Before using this product, be sure to conduct evaluation in actual usage conditions and confirm that there is no problem.

◆For the use environment, refer to page 118.

EMP5A

EMRT1

Accessories

Application

Precautions

Maintenance

EMTGP1

List of products

Manostar transmitter

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List of products

EMT1H

EMT6

EMP5A

EMRT1

HWS15A

Application Precautions Maintenance





Terminal connection diagram



Transmission output diagram (pressureoutput signal)





EMTGP1

EMTGP1 List of products Accessories dedicated to EMTGP1 RoHS WO81 **Terminal cover set** Plastic gland (Ace Service Co., Ltd.) Adapter for conduit (Auxiliary item) WO71 FR51A P P MS99 for electri G 1/2 9 **MS99S** Item olor of rubbe Material bushing Crew numbe Maxi AC4-2T Black 6.5 9.0 AC4-3T 11.0 Material Polyacetal Red 8.5 Item number Item number Material MS61A-RA TCA-T1 Polycarbonate/brass AC4-4T 10.0 12<u>.</u>5 ADPA-EMT1 Brass Green When conducting wiring to the micro differential This is used to protect the This is used when the wiring of micro differential QDP33 terminal screw of EMTGP1B pressure transmitter by passing the wire through the pressure transmitter is conducted with instrumentation thin steel electric wire conduit with a nominal size of type (exposed terminal type). cables. By paying attention to the finish outer diameter 19 or a metallic flexible electric wire conduit, because This is already installed at of the cable to be used, select a plastic gland in a size the service entrance of the transmitter has a G1/2 the time of purchase of the that allows the rubber bushing to retain the cable outer EMD8A internal thread and a different size, use an adapter for diameter when the cap nut is tightened. instrument. the conduit. EMD7 Bracket for mounting on vertical wall surface (horizontal mounting) EMT1 *Mounting screw is not included. 8×φ5 micro differential pressure φ30 (hole) transmitter mounting hole EMT1H 35 0.5 m or EMT6 more surtace 135 EMP5A wall 1.6 č EMRT1 Ð Ф 8 55 HWS15A φ 8 110 4×φ7 wall surface mounting hole Accessories Application Material Item numb BRKT-T1GP1 Steel Precautions Maintenance

*For quality improvement or for another reason, part of the specifications may be subject to change without prior notice.

Warranty

Warranty period

The warranty period for our product is one (1) year from delivery to the location specified by the orderer who makes a direct transaction with us.

Scope of warranty

If any failure or defect attributable to us becomes clear during the above warranty period, we will repair the product or supply a substitute product free of charge. However, even during the warranty period, we will exclude the product from the scope of the warranty if the failure or defect corresponds to any of the following:

- (1) The failure or defect was caused by an unreasonable condition, environment, handling, or usage not mentioned in the
- instruction manual, specifications, and our product catalog.
- 2) The failure or defect was caused by a factor other than our product.
- (3) The failure or defect was caused by a modification or repair conducted by a party other than us.
- (4) The failure or defect was caused by an event that could not be foreseen at the scientific and technical levels at the time of product shipment from us.
- (5) The failure or defect was caused by an external factor not attributable to us, such as acts of God and disasters.

Please note that the warranty mentioned here means the warranty for our individual product, and damage provoked by a failure or defect of the product is excluded from the scope of the warranty.

*This warranty is valid only in Japan.

Application and usage

Our products are designed and manufactured as general-purpose instruments for general industries. Therefore, our products are not intended for the following uses, and our products used in such a manner are outside the scope of application.

- (1) Equipment that is anticipated to greatly affect lives and properties, such as nuclear power generation, aviation, railways, marine vessels, vehicles, and medical devices
- (2) Utilities that include electricity, gas, and service water
- (3) Use in outdoor locations and under similar conditions or environments other than those stipulated in the instruction manual
- (4) Usage to which considerable safety consideration and attention equivalent to (1) and (2) above need to be given

Service

Scope of service

Because the product price does not include service expenses, such as the dispatch of engineers, we will separately charge for the expenses in the following cases:

(1) Instruction for installation and adjustment and a witnessed test run

- (2) Maintenance inspection, adjustments, and repairs
- (3) Technical guidance and technical education
- (4) Witnessed inspections of products at our factory

<<Note>> The product specifications and information in this catalog are subject to change without prior notice for product improvement or other reasons.

For order placement, contact



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