Manostar transmitter

EMTGP1

EMTGP1

<Dedicated to negative pressure measurement>

List of products

WO81

WO71

FR51A

MS99

MS99S

MS61A-RA

QDP33

EMD8A

EMD7

EMT1

EMT1H

EMT6

EMP5A

EMRT1

HWS15A

Accessories

Application

Precautions

Maintenance

Anti-corrosion type fine differential pressure transmitter

This is an anti-corrosion type fine differential pressure transmitter dedicated to negative pressure measurement. This is mainly suitable for the monitoring of static pressure (negative pressure) at the exhaust duct for gas containing corrosive gas in a production factory.



EMTGP1A type (Indoor drip-proof type)



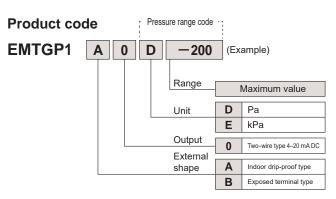
EMTGP1B type (Exposed terminal type)

<Main application fields>

- General factory management equipment
- Negative pressure for dust collector/differential pressure of air conditioners
- Filter pressure loss management
- Precision machine manufacturing line
- Building air conditioning control equipment

<Usage>

- · Detection of clogging of air filter
- Room pressure measurement in a clean room
- · Measurement of clogging of bug filter
- Measurement of dynamic pressure at ventilation/exhaust



◆When making an inquiry or placing an order, specify the above product code.

RoHS

^{*(}Refer to pages 114 to 117)

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Specifications

	Indoor drip-proof type	Exposed terminal type			
Model	EMTGP1A	EMTGP1B			
Pressure unit	Pa, kPa				
Pressure measurement method	Single pressure type (negative pressure measurement)				
Measured gas	Corrosive gas (sulfuric acid gas cannot be measured; for details, contact us)				
Pressure-receiving element	Diaphragm				
Mounting orientation	Horizontal (inclination angle of within ± 5°)				
Operating ambient temperature	10°C to 40°C				
Operating ambient humidity	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				
Output and transmission method	Output signal of 4 to 20 mA DC (load resistance of $500~\Omega$ or lower) Power voltage of 24 V DC \pm 10% (ripple of 0.2 V P-P or lower)				
Insulation resistance	Between terminal and case: 20 MΩ or higher (500 V DC megger)				
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)				
Durable 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				

Pressure range code	Pressure range	Accuracy (at 20°C)	Temperature characteristics (each for zero and span) at 10°C to 40°C	Pressure-receiving element material	Withstanding pressure of pressure-receiving element (Refer to page 118)
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.

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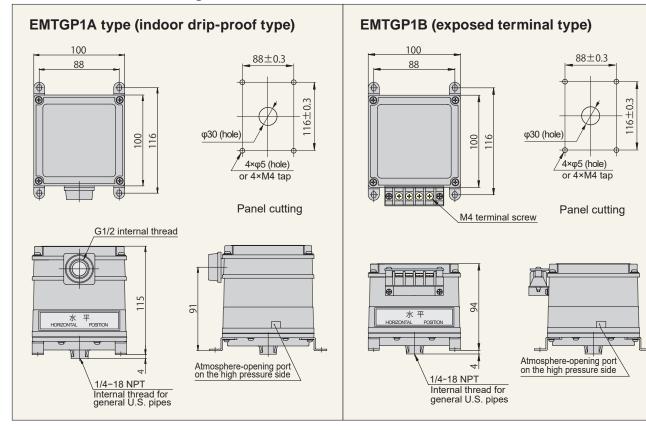
Accessories

Application

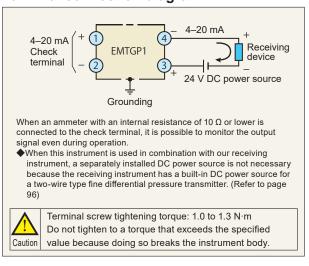
Precautions

Maintenance

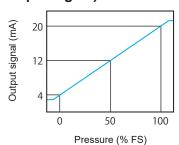
External dimension drawing



Terminal connection diagram



Transmission output diagram (pressureoutput signal)

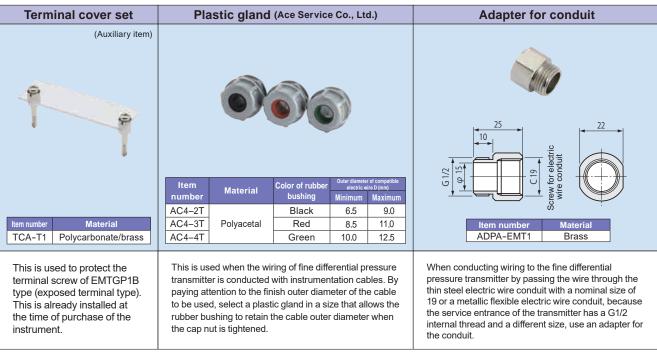


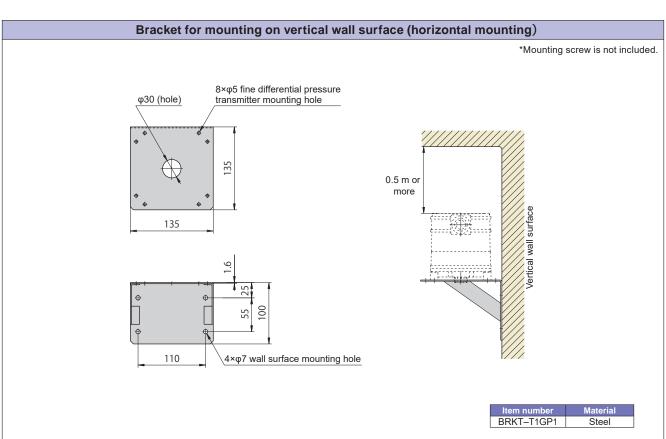
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Accessories dedicated to EMTGP1





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

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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:

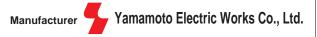
- (1) Instruction for installation and adjustment and a witnessed test run
- (2) Maintenance inspection, adjustments, and repairs
- (3) Technical guidance and technical education
- (4) Witnessed inspections of products at our factory

<<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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