Manostar transmitter

EMT6

Small-sized micro differential pressure transmitter

- · This is a small-sized/light-weight type micro differential pressure transmitter. · A silicone rubber piece with small
 - hysteresis is used in the sensor part. · The zero adjustment trimmer provided on top facilitates zero adjustment as of
- after installation.

*(Refer to pages 114 to 117)



List of products

WO81

WO71

FR51A

- MS61A-RA
- QDP33

EMD8A

EMD7

EMT1

EMTGP1

EMT1H

EMP5A



Pressure range code **Product code** <Main application fields> 0 FV EMT6 В D 100 Semiconductor manufacturing equipment Negative pressure for dust collector/differential pressure of air conditioners • Filter pressure loss management Precision machine manufacturing line · General factory management equipment <Usage> · Measurement of internal pressure of indoor device Detection of clogging of air filter Measurement of clogging of bug filter · Measurement of dynamic pressure at ventilation/exhaust device When making an inquiry or placing an order, specify the above product code. · Room pressure measurement in a clean room

igoplusWhen you use this product for airflow rate/airflow speed measurements, we need to obtain the specifications of the pressure detection side.

.

V

(Example)

Mounting

orientation

Range

Unit

Base

Output

External shape

V

н

None

D

Ε

FV

0

В

Pa

kPa

Range for specification of vertical mounting

Range for arbitrary mounting

Two-wire type 4-20 mA DC

Exposed terminal type

Range for specification of horizontal m

Maximum value

For vinyl pipe

Fill out the airflow rate/airflow speed specification document preparation sheet on page 15 and inform us of the data.

Mounting orientation and range 0 to 50 Pa, 0 to 100 Pa, 0 to 200 Pa, 0 to 300 Pa Whole range other than on the left EMRT1 It is necessary to specify the mounting orientation (horizontal, upright, and others) at the time of The transmitter can be mounted at arbitrary angle between horizontal and upright. order placement. HWS15A Upright plane Upright plane The instrument can be . 10° . 10° 10 mounted on the mounting surface in an arbitrary manner. Uprigh Accessories 90 L. Application Inusable Jusable 0 Horizontal Horizontal Precautions zonta plane plane Maintenance JUGUdr 10° 10° 10°

RoHS

EMT6

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Specifications

| Model | EMT6 | | | | | | WO8 |
|-----------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------|------|
| Pressure unit Pressure measurement | Pa, kPa Differential pressure method | | Operating ambient humidity | 90% RH | H or below (no conde | nsation allowed) | WO7 |
| method | | Durable vibration | 5 to 10 | 5 to 10 Hz, amplitude of 10 mm, 10 to 50 Hz, acceleration of 39 m/s ² (two hours each for three axial directions) | | | |
| Measured gas Pressure-receiving | Air and noncorrosive gas (liquid ca Diaphragm (silicone rubber) | | | | | | |
| element | | Durable impact | | unecuons) 100 m/² (six times each for three axial directions) Vinyl pipe or rubber pipe (inner diameter of 4 mm) Indicating high-pressure side and low-pressure side with "H" and "L" | | | |
| Withstanding pressure of pressure-receiving element | 10 kPa (refer to page 118) | Compatible pipe Polarity of piping | Vinyl pi | | | | |
| Instrument body withstanding pressure | 50 kPa (refer to page 118) | connector | | marks, respectively, at the piping connection part. | | | |
| Exterior material | Polyamide | | Mass | Approx. | Approx. 110 g | | |
| Electric signal conversion method | Variable inductance | | | | | | MSS |
| Insulation resistance | Between terminal and case: 20 M | Ω or higher (500 V DC megger) | | | | | |
| Operating ambient temperature | 0°C to 50°C (no freezing allowed) | | | | | | MS99 |
| Pressure range code | Pressure range | Mounting orientation | Accuracy (at 20°C) | . (zer | re characteristics ro + span) °C to 50°C | Output and transmission method | |
| D 50 H | 0-50 Pa | Horizontal (specification) | | | | MS61A- | |
| D 100 H | 0-100 Pa | | | | | | |
| D 200 H | 0-200 Pa | | | | | | |
| D 300 H | 0-300 Pa | | | | | | QDP3 |
| | | | | | | Two-wire type: | |
| D 50 V | 0–50 Pa | Upright (specification) | ±2.5% FS | | | Output signal of 4 to 20 mA DC | |
| D 100 V | 0-100 Pa | | | ±0.15% FS/°C | (load resistance of 500 Ω or lower) Power voltage of 24 V DC \pm 10% (ripple of 0.2 V P-P or lower) | EMD | |
| D 200 V | 0-200 Pa | | | | | LIVIDO | |
| D 300 V | 0-300 Pa | | | | | | |
| D 500 | 0-500 Pa | Between horizontal and upright | | | | EMD | |
| D 1000 | 0-1000 Pa | | | | | EIVIL | |
| E 2 | 0-2 kPa | | | | | | |
| E 3 | 0-3 kPa | Arbitrary mounting | | | | | |
| E 3 | 0 0 11 4 | , abilitary mounting | | | | | EM |

♦ When using this product in a combustible gas atmosphere, use the intrinsically safe type EMT1H described on page 85.

For the use environment, refer to page 118.

External dimension drawing



Terminal connection diagram



EMT6

List of products

WO01

EMTGP1

EMT1H

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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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