List of products 48×48 type digital micro differential pressure sensor WO81 · Selectable from eight ranges including 0 to 100 Pa and 0 to 5 kPa • It is possible to select analog output function in the range of 4 to 20 mA or 1 to 5 V. WO71 · It is possible to select the alarm output type from NPN open collector or PNP open collector. FR51A • Compatible with 12 to 24 V DC power source · Equipped with abundant additional functions for differential pressure measurement MS99 including movement average filter, maximum/minimum value memory, and delay timer • It is possible to set the alarm function mode in accordance with the usage. MS99S · Product compliant with the EU directive and UL standard MS61A-RA QDP33 EMD8A ALARM EMT1 Pa Manostar EMTGP1 EMD7 EMD7D3 EMT1H EMT6 EMP5A EMRT1 <Main application fields> HWS15A · Part of semiconductor Product code Pressure range code manufacturing equipment Negative pressure for dust collector/differential pressure of air EMD7 D3 Ν 1 D 100 (Example) Accessories conditioners Filter pressure loss management Precision machine manufacturing line Range Application General factory management Maximum value equipment Precautions D Pa Unit <Usage> kPa Ε Measurement of internal pressure of Maintenance indoor device 1 4–20 mA Analog output · Detection of clogging of air filter Measurement of clogging of bug 4 1–5 V filter Measurement of dynamic pressure Ν NPN transistor Alarm output at ventilation/exhaust device · Room pressure measurement in a Ρ PNP transistor clean room Power source D3 12–24 V DC *(Refer to pages 114 to 117)

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

EMD7



EMD7

Specifications

Inded Chicagonal (see signal) Chicagonal (Immeasurement is a signal hold is	Model	EMD7D3				
resume measurement which devices in particular resume measurement resume resume measurement resume resume r	rg massurement rg massurement rg massurement c c grad biomethod biomethod biomethod biomethod to rest biomethod to re	sure unit	Pa, kPa	A	larm output		
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ressure-receiving behaves in difference tubber) wounting orientation wounting orintation wou	ter erectiving ter erectiving ter or ended tender provide tender provide tende provide tender provide tende provide ten	sured gas	Air and noncorrosive gas (liquid cannot b	e measured)			
summers beginning or vertical surface strument body that and greessure pressure receiving memory pressure receiving pressure receiver pressure range pressure range pressur	ing orientation ing and pressure same to dy same t		Diaphragm (silicone rubber)			Maximum load cun Maximum load volt	rent: 100 mA (per output) tage: 30 V DC or lower
strument body pressure receiving mention pressure receiving pressure receiving mention pressure receiving pressure receivi	20 kPa (refer to page 18) 20 kPa (refer to page 18) 20 kPa (refer to page 18) 20 kPa (refer to page 18)	nting orientation	Mounting on vertical surface			Setting range	-
Instanding preserve tement 20 kPa (refer to page 118) Analog output Statum method Dutput disput specific to 20 mA (at pressure 00 D FS) 4 to 20 mA (at pressure 10 D FS) 4 to 20 mA (at pressu	and a preserver it it is a mixed if it is a mixed it it is a mixed it is a mixed it it is a mixed it it is a mixed it it is a mixed it is a mixed it it is mixed it it is a mixed it it is a mixed it it is a mix		20 kPa (refer to page 118)			Lower limit: 0 to 10	00% FS
perating ambient imperating ambient imperating ambient unidify 0°C to 50°C (no freezing allowed) Status Status<td>ing ambient atter with the properties of the propering of the properties of the properties of the pro</td><td>standing pressure ressure-receiving</td><td>20 kPa (refer to page 118)</td><td>A</td><td>nalog output</td><td colspan="2" rowspan="3">Setting method Push-type digital setting Output display Red LED × 2 Output type • EMD7D3 1 4 to 20 mA (at pressure of 0 to FS) Load resistance: 0 to 250 Ω • EMD7D3 4 1 to 5 V (at pressure of 0 to FS)</td>	ing ambient atter with the properties of the propering of the properties of the properties of the pro	standing pressure ressure-receiving	20 kPa (refer to page 118)	A	nalog output	Setting method Push-type digital setting Output display Red LED × 2 Output type • EMD7D3 1 4 to 20 mA (at pressure of 0 to FS) Load resistance: 0 to 250 Ω • EMD7D3 4 1 to 5 V (at pressure of 0 to FS)	
Presting ambient umidity ampatible join onpatible join oneactor 5% to 55% RH (no condensation allowed) - EM0703-14 To 55 (d) (d) prosense of 0 to FS) Los (d) provide the set of the set	ing ambient by → book 55% ht 55% ht f(no condensation allowed) Viryf pipe or nubber pipe (inter diameter of 4 mm, however, the out of diameter must be 8 mm or lower) y → bicker diameter must be 10 mm or lower) y → bicker diameter must be 10 mm or lower) y → bicker diameter must be 10 mm or lower) y → bicker diameter must be 10 mm or lower) y → bicker diameter must be 10 mm or lower) y → bicker diameter must be 10 mm or lower) y → bicker diameter must be 10 mm or lower) y → bicker diameter must be 10 mm or lower) y → bicker diameter must be 10 mm or lower) y → bicker diameter must be 10 mm or lower) y → bicker diameter must be 10 mm or lower) y → bicker diameter must be 10 mm or lower) y → bicker diameter must be 10 mm or lower) y → bicker diameter must be 10 mm or lower) high status distance the same them or lower) distance the same them or lower) distance the same them or lower or lowe	rating ambient	0°C to 50°C (no freezing allowed)		halog output		
compatible pipe coder diaméter musb bé finn of kover) Accuracy Liss's FS (at 20°C) to standaréter musb bé finn of kover) Indicating high-pressure side and Nov-pressure side with "H" and "L" marks, respectively, at the piping connection part. "It marks, respectively, at the piping connection part. "L" marks, respectively, at the piping connection part. "L" marks, respectively, at the piping connection part. "The highest digit indicates the mode.) Accuracy ± 1.5% FS (digit 20°C) Accuracy Temperature characteristics ± 0.15% FS/C (zero + span). ero adjustment terbed Pueb-type automatic zero return (The digstayed value and analog output are adjusted to zero at the same time.) Maximum consumption (The digstayed value and analog output are adjusted to zero at the same time.) Power voltage Mass bruthor resistance Between terminal and case 500 VAC, 5000 Hz, for one minute storior material Standard: IEC 60529 Grade code: IP41 Standard: IEC 6052	Accuracy must be pipe out of dameter must be some closer) Viryl pipe or rubber pipe (inner diameter of 4 mm, however, the outer diameter must be some closer) Accuracy must be some closer) Accuracy must be some closer) y of piping toor Indicating high-pressure side with "H" and "I" mask, respectively, it the piping connection part. Display section Severa-segment ELD, four red digits Pressure indicatorialam setting indication, more digits at maximum Pressure indicatorialam setting indication, three digits at maximum Pressure indicatorialam setting indication, three digits at 10% SF XE (at 24 VCC e1 (K) (sple of 10 MG × 2)) • EMD7D3N (atom output, NPN transistor type), • EMD7D3N (atom output, NPN transistor 0 make interview (stat dameter (S00 VCC Stat (S00 Caro + span)), • End consumption: 10 mA giustiment dig status Peabeven terminal and case 10 MG or higher (S00 VCC Stat (S00 Caro + span)), • Sto 10 Hz, amplitude of 10 mm, 10 MG or higher (S00 VCC (soc + span)), • Sto 10 Hz, amplitude of 10 mm, 10 MG or higher (S00 VCC (soc + span)), • Sto 10 Hz, amplitude of 200 m or below that an elsergin. status elsergin Attage output, it may be able to instit the product in a dry dean location, hoose it in a house (sub in house), • Sto 10 Hz, amplitude of 200 m or below that an else	rating ambient	35% to 85% RH (no condensation allowe	d)			
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Temperature characteristics t.15% FS/*C (zero + span) Power voltage 12 to 24 V D C ± 10% (ripple of 10% or below) Puero adjustment nethod Puish-type automatic zero return (the displayed value and analog output are adjusted to zero at the same time.). Mass Approx. 130 g (including terminal cover and adapter for panel mounting). nsulation resistance Detween terminal and case 500 V AC, 50/60 Hz, for one minute Durable vibration S to 10 Hz, amplitude of 10 mm, 10 to 50 Hz, acceleration of 39 ms ² (two hours each for three ax indictions) Vithstand voltage Between terminal and case 500 V AC, 50/60 Hz, for one minute Durable vibration 100 m/s ² (six times each for three axial directions) Vithstand voltage Standard: IEC 60826 Grade code: IP41 Durable vibration 100 m/s ² (six times each for three axial directions) Pressure range code Adapter for panel mounting, terminal cover (already mounted on instrument body) Alarm output Analog output Pressure range code 0 0-100 Pa 0-100 4-20 mA or D 100 0 0-200 Pa 0-300 NPN transistor 4-20 mA or D 300 0 0-500 Pa 0-500 or 0-200 A	Temperature characteristics 2.15% FS/°C (zero + span) Power voltage 12 to 24 UD ≤ 10% (rtpple of 10% or below) djustment Push-type automatic zero return (The displayed value and analog output are adjusted to zero at the same time.) Mass Approx. 130 g (including terminal cover and adapter for panel monting). and voltage Between terminal and case 10 MΩ or higher (500 VCC megger) Durable vibration 5 to 10 Hz, amplitude of 10 m 10 to 50 Hz, accoleration of 39 m/s ² (two hours each for three axial directions) or material ABS resin (color: ivory) ing altitude Altitude of 2000 m or below Durable vibration Standard: IEC 60529 Grade code: IP41 Standard: IEC 60584 Grade: 2 Uf II is not possible to install this product in a dry dean location, house it in a housing.) Altarm output Analog output D 100 0-100 Pa 0-100 0 200 Altarm output Analog output D 100 0-100 Pa 0-100 0 200 0-200 Pa 0-200 0 300 D 300 0-300 Pa 0.00-1.00 0 or 0 500 Or 0 or 0 or 0 or 1 -5 V E 1 0-1 kPa 0.00-2.00 0 -2 kPa 0.00-2.00 0 -2 kPa 0.00-2.00 0 -5 kPa E 3 0-5 kPa 0.00-5.00 PNP transistor 1-5 V	ılay	Display section Seven-segment LED, four red digits Pressure indication/alarm setting indication, three digits at maximum (The highest digit indicates the mode.)		urrent	Total consumption: 100 mA (internal consumption only) • EMD7D3P (alarm output: PNP transistor type) Internal consumption: 100 mA Total consumption: 300 mA (including load current for alarm	
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Isulation resistance 10 MΩ or higher (500 V DC megger) Image: Market for higher (500	tion resistance Between terminal and case 500 VAC, 5000 Hz, for one minute 500 VAC, 5000 Hz, for panel mounting, terminal cover (already mounted on instrument body) starter ange code Adapter for panel mounting, terminal cover (already mounted on instrument body) starter ange code Pressure range LED display Alarm output Analog output 4-20 mA p 200 0-200 Pa 0-200 Pa 0-200 0 300 0-300 Pa 0-200 0 300 0-500 Pa 0-500 0 0-500 Pa 0-500 Pa 0-500 Pa 0-500 0 0-500 Pa		(The displayed value and analog output a	are adjusted to zero at		mounting)	
500 V AC, 50/60 Hz, for one minute ABS resin (color: ivory) ABS resin (color: ivory) Altitude of 2000 m or below Protection level Standard: IEC 60529 Grade code: IP41 begree of ontamination Standard: IEC 60684 Grade: 2 (If it is not possible to install this product in a dry clean location, house it in a housing.) Pressure range code Adapter for panel mounting, terminal cover (already mounted on instrument body) Pressure range code Pressure range LED display D 100 0-100 Pa 0-100 D 200 0-200 Pa 0-200 D 300 0-300 Pa 0-300 D 300 0-300 Pa 0-300 D 500 0-500 Pa 0-500 0 500 0-500 Pa 0-500 0 500 0-100 Pa 0-100 0 500 0-500 Pa 0-500 0 500 0-500 Pa 0-500 0 500 0-100 Pa 0-500 0 500 0-500 Pa 0-500 0 7 0r 0r	S00 V AC, 50/60 HZ, for one minute ABS resin (color: ivory) ABS resin (color: ivory) Altitude of 2000 m or below Standard: IEC 60529 Grade code: IP41 Standard: IEC 60529 Grade code: IP41 sories Adapter for panel mounting, terminal cover (already mounted on instrument body) sories Adapter for panel mounting, terminal cover (already mounted on instrument body) sories Adapter for panel mounting, terminal cover (already mounted on instrument body) sories Adapter for panel mounting, terminal cover (already mounted on instrument body) sories Adapter for panel mounting, terminal cover (already mounted on instrument body) sories Adapter for panel mounting, terminal cover (already mounted on instrument body) sories Adapter for panel mounting, terminal cover (already mounted on instrument body) sories Adapter for panel mounting, terminal cover (already mounted on instrument body) sories Adapter for panel mounting, terminal cover (already mounted on instrument body) sories Adapter for panel mounting, terminal cover (already mounted on instrument body) sories Adapter for panel mounting, terminal cover (already mounted on instrument body) b 100 0-100 Pa 0-100 b 200 0-200 Pa 0-200 b 300	lation resistance			urable vibration	10 to 50 Hz, acceleration of 39 m/s ² (two hours each for three axial	
perating altitude Altitude of 2000 m or below Standard: IEC 60529 Grade code: IP41 Standard: IEC 60529 Grade code: IP41 Standard: IEC 60529 Grade code: IP41 Standard: IEC 60564 Grade: 2 (If it is no possible to install this product in a dry clean location, house it in a housing.) Pressure range Adapter for panel mounting, terminal cover (already mounted on instrument body) Pressure range LED display Alarm output Analog output D 100 0-100 Pa 0-100 Analog output D 200 0-200 Pa 0-200 Alarm output Analog output D 300 0-300 Pa 0-300 NPN transistor 4–20 mA D 500 0-500 Pa 0-500 or or	ing atitude tion levelAltitude of 2000 m or below Standard: IEC 60529 Grade code: IP41 Standard: IEC 60664 Grade: 2 (If it is not possible to install this product in a dry dean location, house it in a housing.)Image: Code code code code code code code code c	stand voltage		D	urable impact	100 m/s² (six times each t	or three axial directions)
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E 1 0-1 kPa 0.00-1.00 or or	E 0-1 kPa 0.00-1.00 or or E 2 0-2 kPa 0.00-2.00 PNP transistor 1-5 V E 3 0-3 kPa 0.00-3.00 1-5 V 1-5 V E 5 0-5 kPa 0.00-5.00 1-5 V 1-5 V				N	PN transistor	4–20 mA
	E 2 0-2 kPa 0.00-2.00 PNP transistor 1-5 V E 3 0-3 kPa 0.00-3.00 1<					or	or
PNP transistor 1–5 V	E 3 0-3 kPa 0.00-3.00 E 5 0-5 kPa 0.00-5.00					NP transistor	1–5 V
	E 5 0-5 kPa 0.00-5.00						
E 5 0-5 kPa 0.00-5.00	the use environment refer to note 119	E 5	0-5 kPa	0.00-5.00			

This product is compliant with the EMC directive of EU.

EMC directive basic requirements Standard No.

(1) EMI (electromagnetic emission) standardEN 61000–6–3
(2) EMS (electromagnetic immunity) standardEN 61000–6–2

2. UL standard

This product is certified as an UL standard recognition part. It is also certified with Canada Standard (C-UL). However, use this product in accordance with the installation conditions shown in (3) below.

(1) Requirements standard No..... UL 61010-1

(2) File No. E220685

(3) Installation condition......As the DC power source to be connected to this product, use NEC (National Electrical Code) Class 2 power source.

EMD7

List of products

Precautions

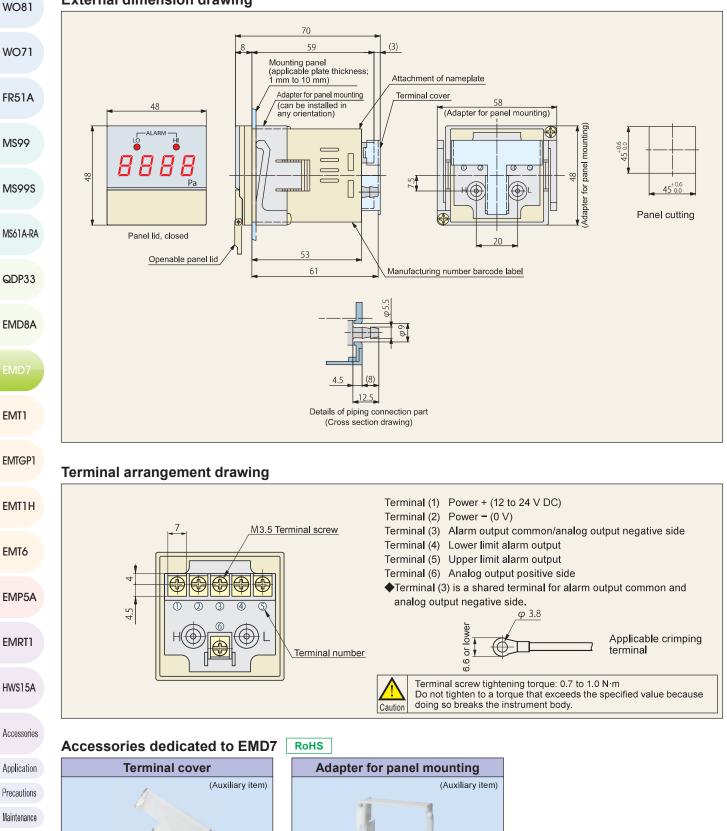
Maintenance

EMD7

EMD7

List of products

External dimension drawing



Material

Polyacetal/steel

Item number ADPA-EMD7

This is already installed at the time of purchase of the instrument.

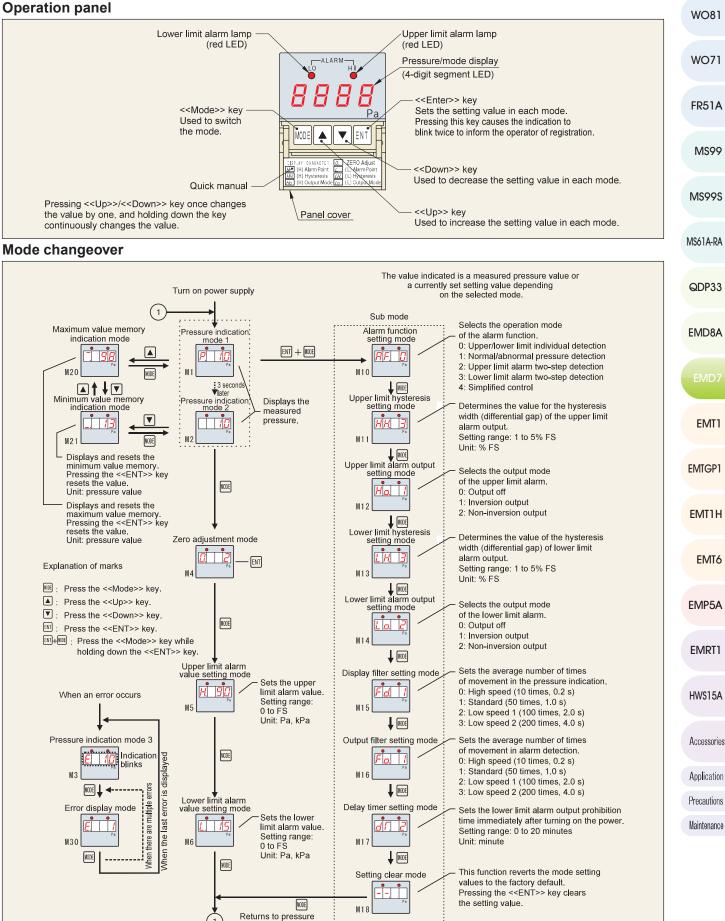
Material

Polycarbonate

Item number

TCA-D7

EMD7

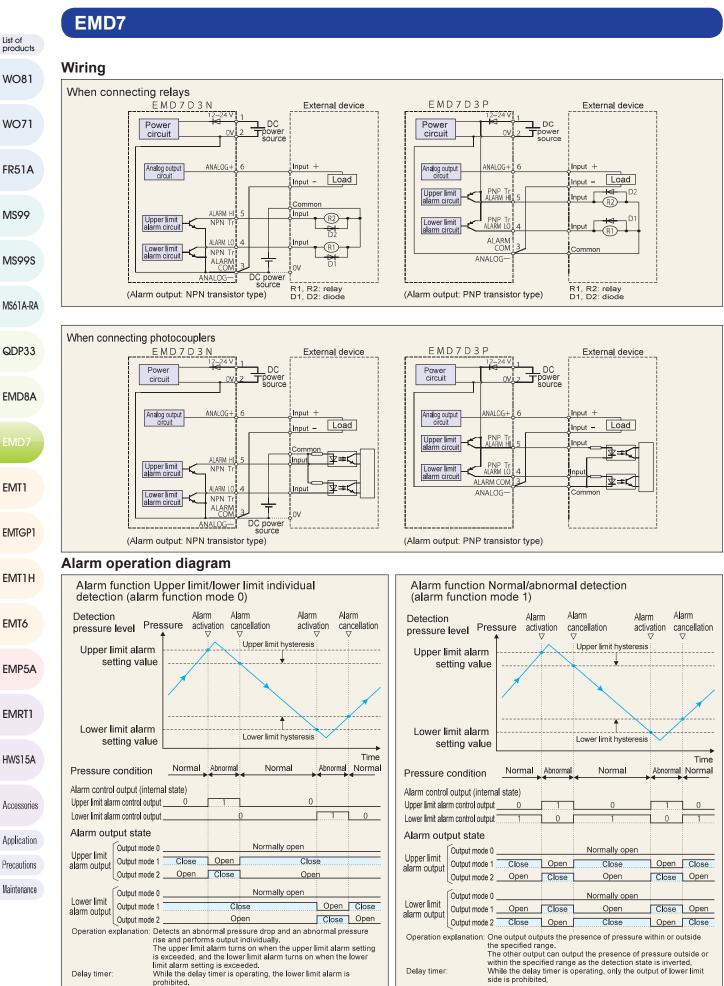


1

indication mode.

EMD7

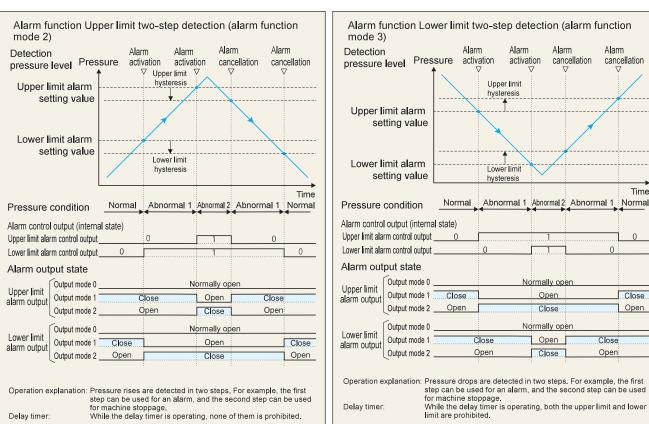
List of products



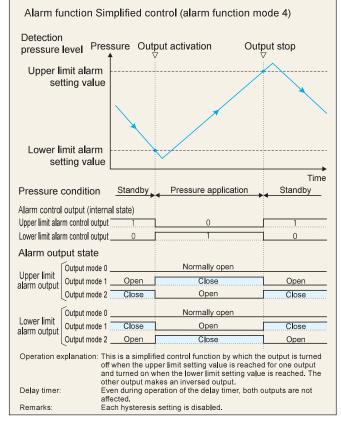
EMD7

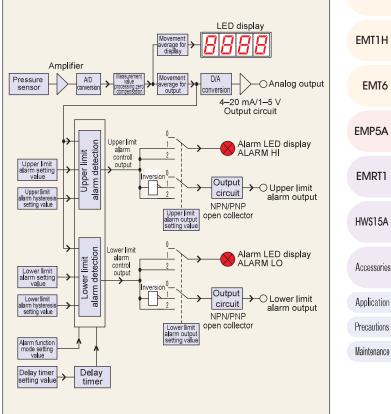
EMD7

EMD7



Functional block diagram





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List of products WO81 WO71 FR51A MS99 Time MS99S MS61A-RA QDP33 EMD8A

EMT1 FMTGP1

EMT6

EMP5A

HWS15A

Accessories

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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