

CS

CODE AND SPECIFICATIONS SHEET

Intelligent Differential Pressure Transmitter with Remote-Sealed Diaphragm EDR-N8S



EDR-N8S Differential Pressure Transmitter incorporates semiconductor sensors and a microcomputer and converts measured differential pressures to 4 to 20mA DC signals with high accuracy.

EDR-N8 is suitable for measuring flow volumes, levels (water levels) and pressures of various process fluid including gas, liquid and steam and also supports various installation environments including explosion-prevented areas.

EDR-N8S, by adopting semiconductor composite sensors, is capable of pressure measurement and communication and output.

STANDARD SPECIFICATIONS

Model EDR-N8S

Differential pressure range

Range Code	Measuring Span	Settable Range Limits
8000	0.748 to 80kPa	$-80 \leq \text{LRV} \leq 80 \text{ kPa}$, $-80 \leq \text{URV} \leq 80 \text{ kPa}$
40000	39.2 to 400kPa	$-400 \leq \text{LRV} \leq 400 \text{ kPa}$, $-400 \leq \text{URV} \leq 400 \text{ kPa}$
100000	100 to 1000kPa	$-1000 \leq \text{LRV} \leq 1000 \text{ kPa}$, $-1000 \leq \text{URV} \leq 1000 \text{ kPa}$

Note) URV is the input differential pressure to give 100% output (20mA DC).

LRV is the input differential pressure to give 0% output (4mA DC).

Output signal 4 to 20mA DC

Output signal range 3.6 to 21.6mA DC (-2.5 to 110%)

Power supply voltage 11.4 to 42.0V DC

Allowable load resistance 600 Ω (at 24V DC power supply voltage)

Communication protocol Hitachi communication

Communication line conditions

Power supply voltage 16.7 to 42.0V DC

Load resistance 250 Ω to 1.2k Ω

See Fig. 1 for the relationship between power supply voltage and load resistance.

External adjustment / configuration Zero point adjustment ($\pm 100\%$ of measured span), LRV and URV adjustment and configuration and damping time constant are configurable (however, only with indicator and when the function is enabled).

Burn-out at error

Burn-up, burn-down or no burn-out can be selected. (No burn-out is configured at shipment.)

Accuracy

●Material Code: Standard, 316L

Range Code	Accuracy
8000	$\pm 0.15\%$ X is 8kPa or higher $\pm [0.05 + (0.1 \times 8/X)]\%$ X is less than 8kPa
40000	$\pm 0.15\%$
100000	$\pm 0.2\%$

Note1) Accuracy is the percentage to X. X is the absolute value of URV, LRV or the biggest value of measured span.
X's unit is kPa.

Note2) For square-root output, With zero-cut designation

Output 1.1% or less:

$\pm$ (linear output accuracy $\times 45\%$)

Output 1.1 to 50%:

$\pm$ (linear output accuracy $\times 50$ / square-root output %) %

Output 50% or higher: Same as linear output

*It is possible to select whether getting the outputs under the zero-cut point zero, or the zero-cut point from an arbitrary straight line or proportional outputs through communication.

Without zero-cut designation

Output 20% or less: Straight line at 0 to 20% point

Output 20% or higher: Same as the above "With zero-cut designation".

Response time

Dead time 0.15s (Minimum)

Damping time constant (Amplifier time constant) Electrically configurable from 0.1 to 102.4s (at 0.1s step) by using a communicator.

Sensor body time constant

Range Code	Time constant (at 25°C)	
	Sensor body	Capillary per 1 m
8000	Approx. 0.05s	Approx. 0.2s
40000	Approx. 0.03s	Approx. 0.1s
100000	Approx. 0.03s	Approx. 0.1s

•Response time is the sum of time constants of the Sensorbody and damping time constant (amplifier time constant) and dead time.

Storage temperature range -40 to 85°C

Operating humidity range 0 to 100%RH

Operating temperature range

Ambient temperature range -40 to 85°C
(-10 to 60°C for Range Code 100000)

Wetted parts temperature range -40 to 180°C

Maximum operating pressure The highest or below operating pressure of flange
(See Fig. 2 for negative pressure.)

Site vibration Continuous vibration below 29.4m/s²

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Temperature characteristics (at -20 to 60℃)

●Material Code: Standard, 316L

Range Code	Temperature characteristics		
8000	Zero shift	$\pm[0.05+(0.5\times T/50)]\%$	X is 30kPa or higher
		$\pm[0.05+(0.35+0.15\times 30/X)\times T/50]\%$	X is less than 30kPa
	Total shift	$\pm[0.05+(0.8\times T/50)]\%$	X is 30kPa or higher
		$\pm[0.05+(0.65+0.15\times 30/X)\times T/50]\%$	X is less than 30kPa
40000	Zero shift	$\pm[0.05+(0.5\times T/50)]\%$	X is 160kPa or higher
		$\pm[0.05+(0.35+0.15\times 160/X)\times T/50]\%$	X is less than 160kPa
	Total shift	$\pm[0.05+(0.8\times T/50)]\%$	X is 160kPa or higher
		$\pm[0.05+(0.65+0.15\times 160/X)\times T/50]\%$	X is less than 160kPa
100000	Zero shift	$\pm[0.05+(0.5\times T/50)]\%$	X is 400kPa or higher
		$\pm[0.05+(0.35+0.15\times 400/X)\times T/50]\%$	X is less than 400kPa
	Total shift	$\pm[0.05+(0.8\times T/50)]\%$	X is 400kPa or higher
		$\pm[0.05+(0.65+0.15\times 400/X)\times T/50]\%$	X is less than 400kPa

(Note)Temperature characteristic is the percentage to X.
X is the absolute value of URV, LRV or the biggest value of measured span. X’s unit is kPa.
T(℃) is temperature variation width.

Effect of difference of wetted parts temperature

Aperture	Effect value		Protruding part length
	Difference of wetted parts temperature (10℃ varied)	Difference of capillary temperature (1m, 10℃ varied)	
80A(3B)	0.08kPa	0.04kPa	E0
	0.2kPa	0.1kPa	E>0, EZ>0
100A(4B)	0.08kPa	0.04kPa	E0, E>0

Static pressure characteristics (at 25℃)

●Material Code: Standard, 316L

Range Code	Static pressure characteristics		
8000	Zero shift	$\pm[0.05+(0.05\times P/2.5)]\%$	X is 40kPa or higher
		$\pm[0.05+(0.05\times 40/X)\times P/2.5]\%$	X is less than 40kPa
	Total shift	$\pm[0.05+(1.95+0.1\times 80/X)\times P/2.5]\%$	
40000	Zero shift	$\pm[0.05+(0.05\times P/2.5)]\%$	X is 200kPa or higher
		$\pm[0.05+(0.05\times 200/X)\times P/2.5]\%$	X is less than 200kPa
	Total shift	$\pm[0.05+(1.45+0.1\times 400/X)\times P/2.5]\%$	
100000	Zero shift	$\pm[0.05+(0.05\times P/2.5)]\%$	X is 500kPa or higher
		$\pm[0.05+(0.05\times 500/X)\times P/2.5]\%$	X is less than 500kPa
	Total shift	$\pm[0.05+(1.45+0.1\times 1000/X)\times P/2.5]\%$	

(Note)Static pressure characteristic is the percentage to X.
X is the absolute value of URV, LRV or the biggest value of measured span. X’s unit is kPa.
P is a static pressure. P’s unit is MPa.

Materials

Diaphragm	SUS316L
Wetted parts other than diaphragm	SUS316
Standard flange	SUS304 or SUSF304
Capillary	SUS316(polyethylene-covered) (Note) No polyethylene cover for Wetted parts conditions Code: WVT
Sensor body	SCM435
flange bolt	
Amplifier case	Aluminum alloy
Mounting plate	SPCC (anti-acid painting)
U-bolt	SUS304
Sealed liquid	Silicone oil (Relative density: 0.955 at 25℃)
Process connection	JIS 10K 80A RF (similar flange)
Length of protruding part of flange	0 mm
Capillary length	5 m
Capillary ejection direction	Wafer type (Horizontal to side of diaphragm)
Wire connection	G1/2
Check terminal	Current output (Ampere meter is required for measurement.)
Protection grade	JIS C 0920 IP67
Surge absorber	Incorporated into the power input circuit Surge tolerance:1,000A(8/20μs) Impact test voltage:15,000V(1.2/50μs)
Color	Light gray (anti-acid painting)
Weight	Approx. 10kg
Mounting	Use U-bolts for 50A pipe, etc.
Accessories	A set of 50A pipe mounting plate and U-bolts, External adjustment/configuration magnet

ADDITIONAL SPECIFICATIONS

Communication protocol	HART communication				
Static pressure measurement	(Absolute pressure measurement)				
Output form	Composite converter EDB500MA outputs 1 to 5V DC that is displayed with the incorporated indicator.				
Measuring span	0.5 to 5MPa abs.				
Accuracy	<table><tr><td>$\pm 0.2\%$</td><td>X is 1MPa or higher</td></tr><tr><td>$\pm 0.2\times (1/X)\%$</td><td>X is less than 1MPa</td></tr></table>	$\pm 0.2\%$	X is 1MPa or higher	$\pm 0.2\times (1/X)\%$	X is less than 1MPa
$\pm 0.2\%$	X is 1MPa or higher				
$\pm 0.2\times (1/X)\%$	X is less than 1MPa				
Temperature characteristics	<table><tr><td>Zero shift</td><td>$\pm[0.05+(1.0\times T/50)]\%$ $\pm[0.05+(0.5+0.5\times 2/X)\times T/50]\%$ X is 2MPa or higher X is less than 2MPa</td></tr><tr><td>Total shift</td><td>$\pm[0.05+(2.5\times T/50)]\%$ $\pm[0.05+(2.0+0.5\times 2/X)\times T/50]\%$ X is 2MPa or higher X is less than 2MPa</td></tr></table>	Zero shift	$\pm[0.05+(1.0\times T/50)]\%$ $\pm[0.05+(0.5+0.5\times 2/X)\times T/50]\%$ X is 2MPa or higher X is less than 2MPa	Total shift	$\pm[0.05+(2.5\times T/50)]\%$ $\pm[0.05+(2.0+0.5\times 2/X)\times T/50]\%$ X is 2MPa or higher X is less than 2MPa
Zero shift	$\pm[0.05+(1.0\times T/50)]\%$ $\pm[0.05+(0.5+0.5\times 2/X)\times T/50]\%$ X is 2MPa or higher X is less than 2MPa				
Total shift	$\pm[0.05+(2.5\times T/50)]\%$ $\pm[0.05+(2.0+0.5\times 2/X)\times T/50]\%$ X is 2MPa or higher X is less than 2MPa				

(Note)Accuracy and temperature characteristics are the percentages to X. X is the absolute value of URV, LRV or the biggest value of measured span. X’s unit is MPa.
T (℃) is temperature variation width.

TIIS flameproof, Oil-immersion

Applicable Standard	With indicator: Exdo II CT4 X ^{Note)} Without indicator: Exdo II CT 4X ^{Note)} Available for use at Zone1, Zone2 groups of hazardous place. Note) X is the operating requirement (See below). Please construct an external alarm indication system by scaling out of the output signal. If equipped with the indicator, the above configuration is unnecessary because no X operation requirement is applied.
Operating temperature range	Ambient temperature range: -20 to 55°C Wetted parts temperature range: -20 to 100°C
Wire connection	Please use X-EXRCA pressure proof packing brackets (or EXPC-16B by Shimada Electric Co.,Ltd).
Indicator	Digital indicator Indication 5 digits, unit 7 digits, bar graph Indication items Individual enable/disable indication of the following items: Automatic switching when selecting the Items Differential pressure%, Differential pressure value, Actual scale of differential pressure, Static pressure%, Static pressure value Actual scale Unit is selected from pressure, flow volume, height or discretionary configuration. Configuration range: -99,999 to 99,999 Ambient temperature range: -20 to 85°C
Process connection	JIS 20K, ANSI 150, ANSI 300, JPI 150, JPI 300, etc. Connection aperture:80A(3B), 100A(4B) (See Code Table for the details.)
Length of protruding part of flange	50mm, 100mm, 150mm (Protruding type can also be created only for high pressure)
Diaphragm cover (Only for aperture 80A(3B) without protruding part)	Material: FEP (Operating pressure: Atmospheric pressure or higher, operating temperature: -10 to 120°C) ±0.5% is added to the accuracy when the diaphragm cover is used.
Capillary length	1 to 10m (Unit: 1m)
Capillary ejection direction	Back ejection (Vertical to side of diaphragm)
Bolt material	Sensor body flange bolt:SUS630

Sealed liquid

Fluorine oil	Wetted parts temperature range:-20 to 120°C Relative density:1.860 (at 20°C) (See Fig. 3 for negative pressure.) Specify also the oil-prohibitive finish together for oxygen measurement.
Silicone oil for sanitary purposes	Wetted parts temperature range:-20 to 150°C Relative density:0.965 (at 25°C) (See Fig. 4 for negative pressure.)
Propylene glycol	Wetted parts temperature range:-20 to 150°C Relative density:1.037 (at 25°C) (Not available for negative pressure.)

Wetted parts finish Oil-prohibitive or oil and water prohibitive finish

Wetted parts conditions

High temperature type (Code: HT)	Wetted parts temperature range: -10 to 310°C Ambient temperature range: -10 to 85°C Relative density of sealed liquid:1.065(at 25°C) (Operating pressure is atmospheric pressure or higher)
Low temperature type (Code: LT)	Wetted parts temperature range: -70 to 60°C Ambient temperature range: -20 to 60°C Relative density of sealed liquid: 0.873(at 25°C) (See Fig. 5 for negative pressure.)
Vacuum type (Code: V)	Wetted parts temperature range: -40 to 180°C Ambient temperature range: -20 to 85°C Sealed liquid is the same as standard specifications. (Operating pressure varies depending on the temperature. See Fig. 2 for proper usage.)
Wafer type	Wetted parts temperature range: -10 to 310°C Ambient temperature range: -10 to 85°C Relative density of sealed liquid:1.065 (at 25°C) (Operating pressure varies depending on the temperature. See Fig. 6 for proper usage.) Note) Capillary is not polyethylene-covered.
High temperature vacuum type (Code: WVT)	Wetted parts temperature range: -10 to 310°C Ambient temperature range: -10 to 85°C Relative density of sealed liquid:0.955 (at 25°C) However, 1.065 at the tip (Operating pressure varies depending on the temperature. See Fig. 6 for proper usage.)
High temperature vacuum type (Code: VT)	Wetted parts temperature range: -10 to 310°C Ambient temperature range: -10 to 85°C Relative density of sealed liquid:0.955 (at 25°C) However, 1.065 at the tip (Operating pressure varies depending on the temperature. See Fig. 6 for proper usage.)
High temperature / high vacuum type (Code: SVT)	Wetted parts temperature range: 10 to 310°C Ambient temperature range: -10 to 85°C Relative density of sealed liquid:0.955 (at 25°C) However, 1.079 at the tip Negative pressure is allowed up to 0.0133 kPa abs. (See Fig. 7.)

Wetted parts materials

Material Code	Diaphragm	Wetted parts except for diaphragm
316L	SUS316L	SUS316L
HC	Hastelloy C	Hastelloy C
TA	Tantalum	Tantalum

Note)Protruding part length of 0mm is only manufactured for the Material Code TA.
*Select a material considering the anti-corrosion characteristics. Using gold-plated diaphragm (Code: Z52) or embedded with gold-plated diaphragm + hydrogen absorbing alloy (Code:Z72)is recommended if there is any concern about the error caused by hydrogen permeation of diaphragm due to hydrogen in the measured fluid, etc. (However, it is difficult for Z52 and Z72 to completely prevent the error caused by hydrogen permeation.)

Accuracy

●Material Code: HC, TA
(Wetted parts conditions Code: VT, SVT are not included.)

Range Code	Accuracy	
8000	$\pm 0.2\%$ $\pm [0.1+(0.1 \times 8/X)]\%$	X is 8kPa or higher X is less than 8kPa
40000	$\pm 0.2\%$ $\pm [0.1+(0.1 \times 40/X)]\%$	X is 40kPa or higher X is less than 40kPa
100000	$\pm 0.25\%$ $\pm [0.15+(0.1 \times 200/X)]\%$	X is 200kPa or higher X is less than 200kPa

Note)Accuracy is the percentage to X. X is the absolute value of URV, LRV or the biggest value of measured span.
X’s unit is kPa.

●Wetted parts conditions Code: VT, SVT

Range Code	Accuracy
8000	$\pm 0.5\%$
40000	
100000	

Temperature characteristics (at -20 to 60℃)

●Material Code: HC, TA

Range Code	Temperature characteristics	
8000	Zero shift Total shift	$\pm [0.1+(1.0 \times T/50)]\%$ $\pm [0.1+(0.5+0.5 \times 50/X) \times T/50]\%$ $\pm [0.1+(1.5 \times T/50)]\%$ $\pm [0.1+(0.75+0.75 \times 50/X) \times T/50]\%$ X is 50kPa or higher X is less than 50kPa X is 50kPa or higher X is less than 50kPa
40000	Zero shift Total shift	$\pm [0.1+(1.0 \times T/50)]\%$ $\pm [0.1+(0.5+0.5 \times 200/X) \times T/50]\%$ $\pm [0.1+(1.5 \times T/50)]\%$ $\pm [0.1+(0.75+0.75 \times 200/X) \times T/50]\%$ X is 200kPa or higher X is less than 200kPa X is 200kPa or higher X is less than 200kPa
100000	Zero shift Total shift	$\pm [0.15+(1.0 \times T/50)]\%$ $\pm [0.1+(0.5+0.5 \times 400/X) \times T/50]\%$ $\pm [0.1+(1.5 \times T/50)]\%$ $\pm [0.1+(0.75+0.75 \times 400/X) \times T/50]\%$ X is 400kPa or higher X is less than 400kPa X is 400kPa or higher X is less than 400kPa

Note) Temperature characteristic is the percentage to X. X is the absolute value of URV, LRV or the biggest value of measured span.
X’s unit is kPa. T (℃) is temperature variation width.

Static pressure characteristics (at 25℃)

●Material Code: HC, TA

Range Code	Static pressure characteristics	
8000	Zero shift Total shift	$\pm [0.1+(0.1 \times P/2.5)]\%$ $\pm [0.1+(0.1 \times 50/X) \times P/2.5]\%$ $\pm [0.1+(2.5+0.1 \times 80/X) \times P/2.5]\%$ X is 50kPa or higher X is less than 50kPa
40000	Zero shift Total shift	$\pm [0.1+(0.1 \times P/2.5)]\%$ $\pm [0.1+(0.1 \times 220/X) \times P/2.5]\%$ $\pm [0.1+(2.0+0.1 \times 400/X) \times P/2.5]\%$ X is 220kPa or higher X is less than 220kPa
100000	Zero shift Total shift	$\pm [0.1+(0.1 \times P/2.5)]\%$ $\pm [0.1+(0.1 \times 500/X) \times P/2.5]\%$ $\pm [0.1+(2.0+0.1 \times 1000/X) \times P/2.5]\%$ X is 500kPa or higher X is less than 500kPa

Note) Static pressure characteristic is the percentage to X.
X is the absolute value of URV, LRV or the biggest value of measured span. X’s unit is kPa.
P is a static pressure. P’s unit is MPa.

SMALL APERTURE FLANGE CONNECTION

Differential pressure range

Range Code	Measuring Span		Settable Range Limits
8000	Aperture 1B(25A) 1.5B(40A)	8 to 80kPa	$-80 \leq LRV \leq 80kPa,$ $-80 \leq URV \leq 80kPa$
	Aperture 2 B (50A)	E0 2 to 80kPa	
		E>0 EZ>0 8 to 80kPa	
40000	40 to 400kPa		$-400 \leq LRV \leq 400kPa,$ $-400 \leq URV \leq 400kPa$
100000	100 to 1000kPa		$-1000 \leq LRV \leq 1000kPa,$ $-1000 \leq URV \leq 1000kPa$

Accuracy

Aperture	Accuracy		Capillary length	Protruding part length
25A (1B)	$\pm 1.0\%$ $\pm [1.0+0.045 \times (T-Ta)]\%$	T is less than Ta℃ T is Ta℃ or higher	1 to 5m	Only E0 (Protruding not allowed)
40A (1.5B)	$\pm 0.5\%$ $\pm 1.0\%$ $\pm [1.0+0.045 \times (T-Ta)]\%$	T is less than Ta℃ T is Ta℃ or higher	1 to 10m 1 to 5m	E0 E>0 EZ>0
50A (2 B)	Range Code 8000 Range Code 40000 Range Code 100000	$\pm 0.2\%$ $\pm [0.1+(0.1 \times 8/X)]\%$ $\pm 0.2\%$ $\pm 0.2\%$	1 to 10m	E0 E>0, EZ>0

See table below for Ta, Tb values.

	Wetted parts temperature (℃)				
	-40 to 60	60 to 90	90 to 120	120 to 150	150 to 180
Ta	60	50	40	25	15
Tb	45	40	30	15	5

Temperature characteristics

Aperture	Temperature characteristics	Protruding part length
1 B(25A)	Standard specifications × 3	Only E0
1.5 B (40A)	Standard specifications × 2	E0
	Standard specifications × 3	E>0, EZ>0
2 B (50A)	Same as standard specifications	E0
	Standard specifications × 2	E>0, EZ>0

Effect of temperature difference

Aperture	Effect value		Protruding part length
	Wetted parts temperature difference (varied at 10°C)	Capillary temperature difference (1m, 10°C varied)	
25A(1B)	1.6 kPa	1.3 kPa	Only E0
40A (1.5B)	0.6 kPa	0.4 kPa	E0
	2.0 kPa	1.3 kPa	E>0
50A (2B)	0.2 kPa	0.1 kPa	E0
	0.8 kPa	0.4 kPa	E>0

Static pressure characteristics

Aperture	Static pressure characteristics	Protruding part length
1B(25A)	Standard specifications × 3	Only E0
1.5B (40A)	Standard specifications × 2	E0
	Standard specifications × 3	E>0
2B (50A)	Same as standard specifications	E0
	Standard specifications × 2	E>0

Sensor body time constant

Range Code	Time constant (25°C)	
	Sensor body	Capillary per 1m
8000	Approx. 0.2 s	Approx. 1.6s
40000	Approx. 0.1 s	Apprpx. 0.3s
100000	Approx. 0.1 s	Approx. 0.3s

Operating temperature range

Ambient temperature range -10 to 60°C
(-20 to 85°C for aperture 50A(2B),E0)

Wetted parts temperature range -20 to 180°C

Storage temperature range -10 to 60°C

Process connection JIS 10K, 20K, 30K, 63K
ANSI 150, 300
JPI 150, 300, etc.
Connection aperture:25A(1B), 40A(1.5B), 50A(2B))
(See Code Table for details.)

Length of protruding part of flange 0mm, 50mm, 100mm, 150mm
(Protruding type can also be created only for high pressure. However, only 0mm is available for 25A (1B).)

Diaphragm cover

(Only for aperture 2B(50A) without protruding part)

Material: FEP (Operating pressure: atmospheric pressure or higher, Operating temperature:-10 to 120°C)
±0.8% is added to the accuracy when the diaphragm cover is used.

Wetted parts conditions

High temperature type (Code:HT)

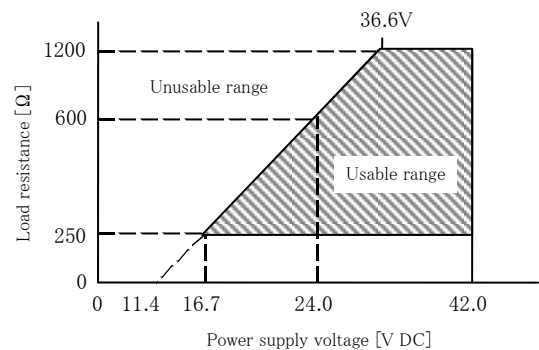
Wetted parts temperature range: -10 to 310°C
Ambient temperature range: -10 to 60°C
(Aperture 50A(2B), E0: -10 to 85°C)
Relative density of sealed liquid:1.065(at 25°C)
(Operating pressure is atmospheric pressure or higher.)

Low temperature type (Code:LT)

Wetted parts temperature range: -70 to 60°C
Ambient temperature range: -20 to 60°C
Relative density of sealed liquid:0.873(at 25°C)
(See Fig. 5 for negative pressure.)

Vacuum type (Code:V)

Wetted parts temperature range: -20 to 180°C
Ambient temperature range: -10 to 60°C
(-20 to 85°C for aperture 50A(2B),E0)
Sealed liquid is the same as standard specifications.
(Operating pressure varies depending on the temperature. See Fig. 2 for proper usage.)



The minimum load resistance of 250 Ω is required to communicate by connecting the communicator.

Fig. 1 Power supply voltage / load resistance characteristics

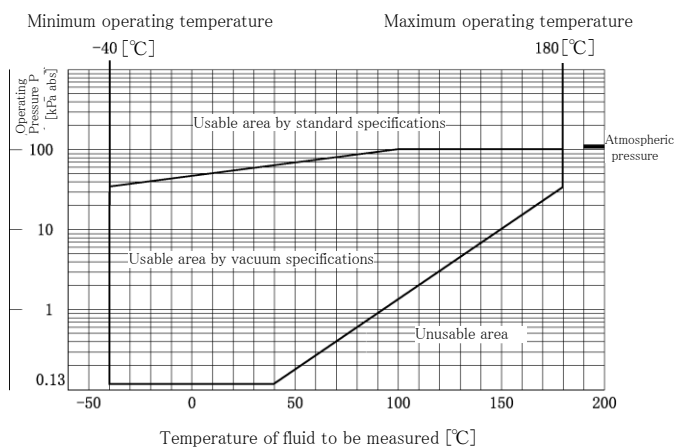


Fig. 2 Operating pressure and wetted parts temperature
(Standard / Vacuum type specifications)

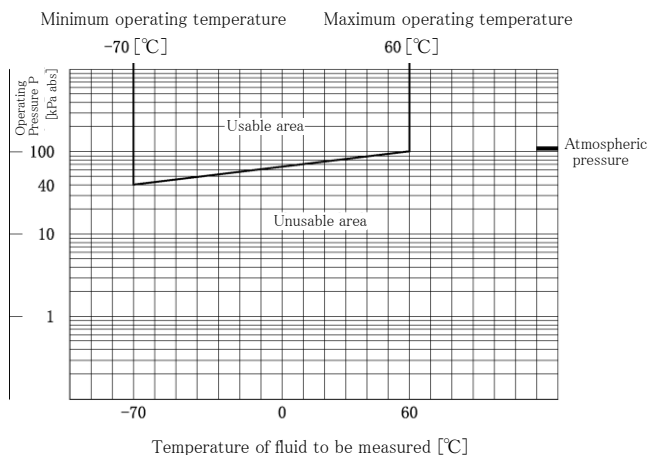


Fig. 5 Operating pressure and wetted parts temperature
(Low temperature type)

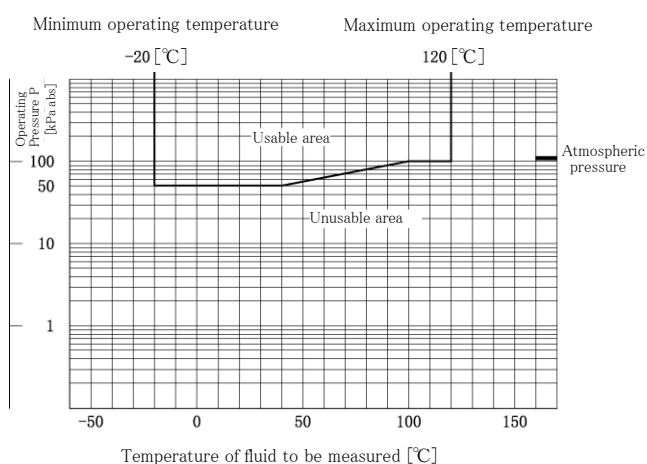


Fig. 3 Operating pressure and wetted parts temperature
(Sealed liquid: Fluoride oil)

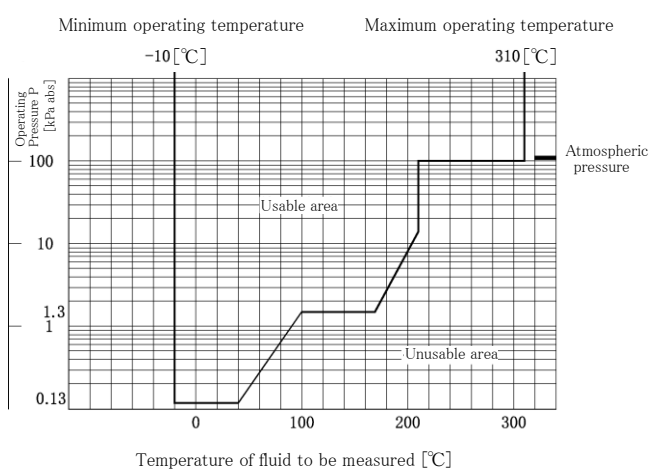


Fig. 6 Operating pressure and wetted parts temperature
(High temperature vacuum type specifications)

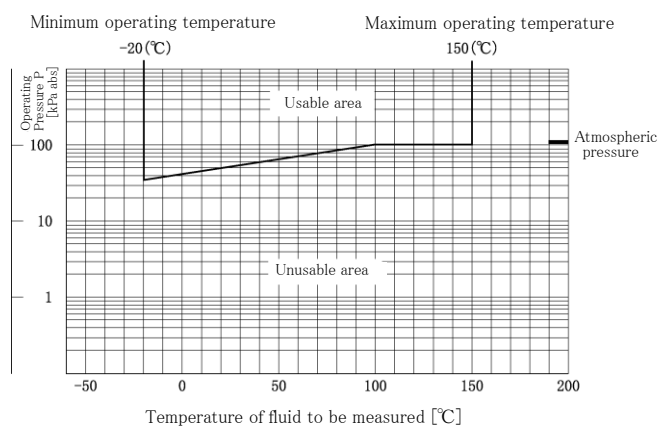


Fig. 4 Operating pressure and wetted parts temperature
(Sealed liquid: Sanitary silicon oil)

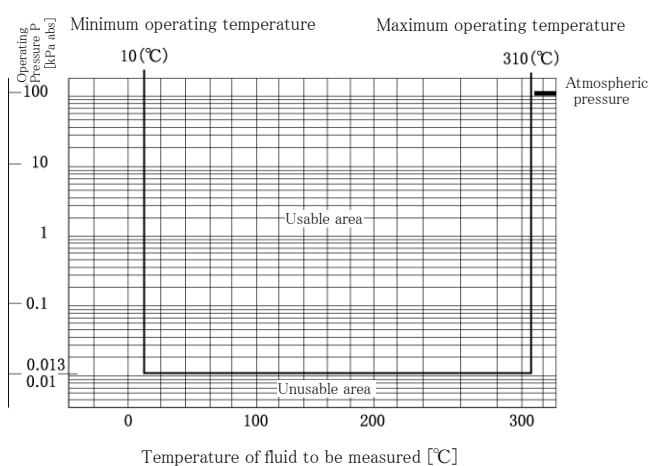
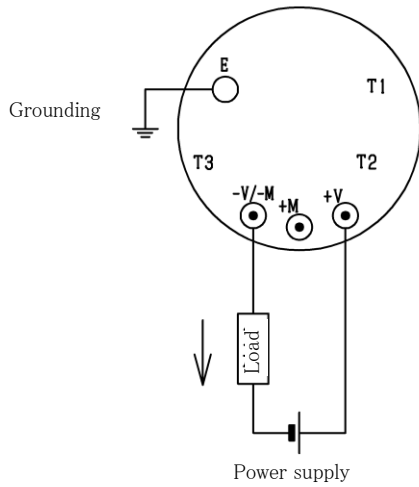


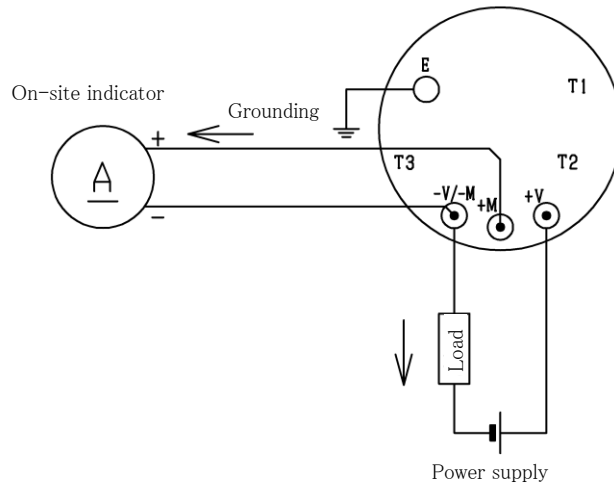
Fig. 7 Operating pressure and wetted parts temperature
(High temperature / high vacuum type specifications)

EXTERNAL CONNECTION DRAWING

Without on-site indicator



Connected with on-site indicator



Note1) Perform Class D grounding work (ground resistance of $100\ \Omega$ or less) for grounding.

Note2) Ground either the transmitter or the receiving instrument. Be careful not to be dual-grounded.

Note3) Grounding terminals on the transmitter are located inside the terminal box and outside the amplifier case.

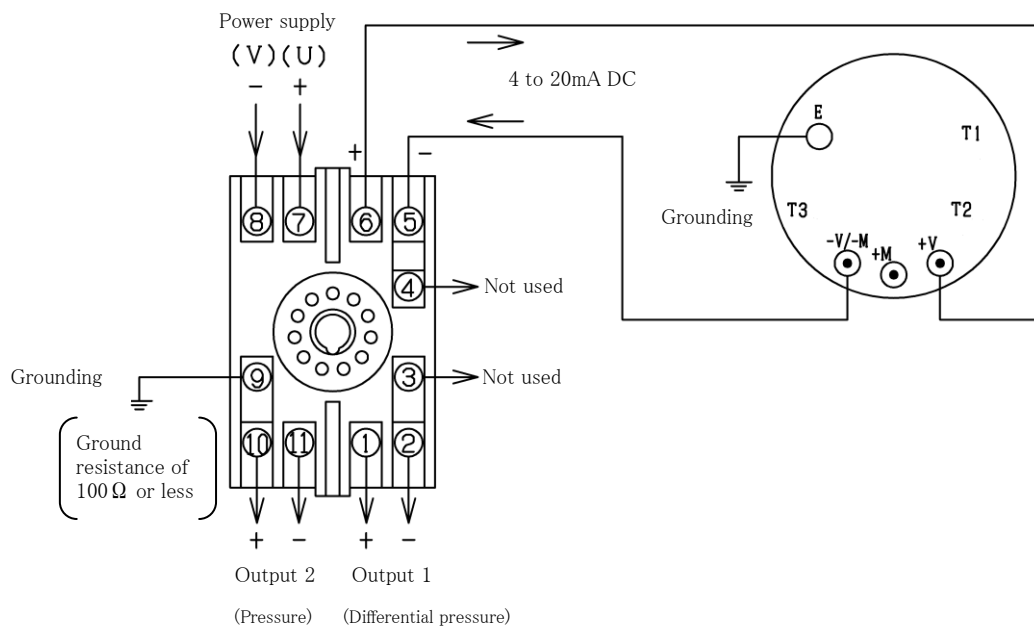
You can use either of the groundings.

Note4) T1, T2 and T3 terminals are not connected.

Note5) The resistance value needs to be $20\ \Omega$ or less including wire resistance to connect an on-site indicator.

Connected with EDB500MA

EDB500MA
Composite converter



Wafer type

Without protruding part (E0)

Flange standard (similar flange)		φ D	φ F	φ d	φ C	n× φ h	t
25A	JIS10K	125	63	30	90	4×19	14
	JIS20K	125	63	30	90	4×19	16
	JIS30K	130	63	30	95	4×19	20
	JIS40K	130	63	30	95	4×19	22
	JIS63K	140	63	30	100	4×23	27
40A	JIS10K	140	80	42	105	4×19	16
	JIS20K	140	80	42	105	4×19	18
	JIS30K	160	80	42	120	4×23	22
	JIS40K	160	80	42	120	4×23	24
	JIS63K	175	80	42	130	4×25	32
50A	JIS10K	155	98	64	120	4×19	16
	JIS20K	155	98	64	120	8×19	18
	JIS30K	165	98	64	130	8×19	22
	JIS40K	165	98	64	130	8×19	26
	JIS63K	185	98	64	145	8×23	34
80A	JIS10K	185	127	88	150	8×19	18
	JIS20K	200	127	88	160	8×23	22
	JIS30K	210	127	88	170	8×23	28
	JIS40K	210	127	88	170	8×23	32
	JIS63K	230	127	88	185	8×25	40
100A	JIS10K	210	154	88	175	8×19	18
	JIS20K	225	154	88	185	8×23	24
	JIS30K	240	154	88	195	8×25	32
	JIS40K	250	154	88	205	8×25	36
	JIS63K	270	154	88	220	8×27	44
25A (1B)	ANSI150	108	63	30	79.4	4×16	14.5
	ANSI300	124	63	30	88.9	4×20	17.5
	ANSI600	124	63	30	88.9	4×20	17.5
	ANSI900	149	63	30	101.6	4×26	29
	ANSI1500	149	63	30	101.6	4×26	29
40A (1.5B)	ANSI2500	159	63	30	107.9	4×26	35
	ANSI150	127	80	42	98.4	4×16	17.5
	ANSI300	156	80	42	114.3	4×23	21
	ANSI600	156	80	42	114.3	4×23	22.5
	ANSI900	178	80	42	123.8	4×29	32
50 A (2B)	ANSI1500	178	80	42	123.8	4×29	32
	ANSI2500	203	80	42	146	4×32	44.5
	ANSI150	152	98	64	120.6	4×20	19.5
	ANSI300	165	98	64	127	8×20	22.5
	ANSI600	165	98	64	127	8×20	25.5
80 A (3B)	ANSI900	216	98	64	165.1	8×26	38.5
	ANSI1500	216	98	64	165.1	8×26	38.5
	ANSI2500	235	98	64	171.4	8×29	51
	ANSI150	191	127	88	152.4	4×20	24
	ANSI300	210	127	88	168.3	8×23	29
100A (4B)	ANSI600	210	127	88	168.3	8×23	32
	ANSI900	241	127	88	190.5	8×26	38.5
	ANSI1500	267	127	88	203.2	8×32	48
	ANSI2500	305	127	88	228.6	8×35	67
	ANSI150	229	154	88	190.5	8×20	24
80 A (3B)	ANSI300	254	154	88	200	8×23	32
	ANSI600	273	154	88	215.9	8×26	38.5
	ANSI900	292	154	88	235	8×32	44.5
	ANSI1500	311	154	88	241.3	8×35	54
	ANSI2500	356	154	88	273	8×42	76.5

* JPI flange is the same size as ANSI flange.

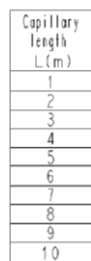
* φ d is for diaphragm material of SUS316L

With protruding part (E50, E100, E150)

Flange standard (similar flange)		φ D	φ F	φ g	φ d	φ C	n× φ h	t
40A	JIS10K	140	80	37	30	105	4×19	16
	JIS20K	140	80	37	30	105	4×19	18
	JIS30K	160	80	37	30	120	4×23	22
	JIS40K	160	80	37	30	120	4×23	24
	JIS63K	175	80	37	30	130	4×25	32
50A	JIS10K	155	98	48	42	120	4×19	16
	JIS20K	155	98	48	42	120	8×19	18
	JIS30K	165	98	48	42	130	8×19	22
	JIS40K	165	98	48	42	130	8×19	26
	JIS63K	185	98	48	42	145	8×23	34
80A	JIS10K	185	127	72	64	150	8×19	18
	JIS20K	200	127	72	64	160	8×23	22
	JIS30K	210	127	72	64	170	8×23	28
	JIS40K	210	127	72	64	170	8×23	32
	JIS63K	230	127	72	64	185	8×25	40
100A	JIS10KF	210	154	96	88	175	8×19	18
	JIS20K	225	154	96	88	185	8×23	24
	JIS30K	240	154	96	88	195	8×25	32
	JIS40K	250	154	96	88	205	8×25	36
	JIS63K	270	154	96	88	220	8×27	44
40A (1.5B)	ANSI150	127	80	37	30	98.4	4×16	17.5
	ANSI300	156	80	37	30	114.3	4×23	21
	ANSI600	156	80	37	30	114.3	4×23	22.5
	ANSI900	178	80	37	30	123.8	4×29	32
	ANSI1500	178	80	37	30	123.8	4×29	32
50A (2B)	ANSI2500	203	80	37	30	146	4×32	44.5
	ANSI150	152	98	48	42	120.6	4×20	19.5
	ANSI300	165	98	48	42	127	8×20	22.5
	ANSI600	165	98	48	42	127	8×20	25.5
	ANSI900	216	98	48	42	165.1	8×26	38.5
80A (3B)	ANSI1500	216	98	48	42	165.1	8×26	38.5
	ANSI2500	235	98	48	42	171.4	8×29	51
	ANSI150	191	127	72	64	152.4	4×20	24
	ANSI300	210	127	72	64	168.3	8×23	29
	ANSI600	210	127	72	64	168.3	8×23	32
100A (4B)	ANSI900	241	127	72	64	190.5	8×26	38.5
	ANSI1500	267	127	72	64	203.2	8×32	48
	ANSI2500	305	127	72	64	228.6	8×35	67
	ANSI150	229	154	96	88	190.5	8×20	24
	ANSI300	254	154	96	88	200	8×23	32
80A (3B)	ANSI600	273	154	96	88	215.9	8×26	38.5
	ANSI900	292	154	96	88	235	8×32	44.5
	ANSI1500	311	154	96	88	241.3	8×35	54
	ANSI2500	356	154	96	88	273	8×42	76.5

* JPI flange is the same size as ANSI flange.

* φ d is for diaphragm material of SUS316L



Back ejection type

Without protruding part (E=0)

Flange standard (similar flange)		φ D	φ F	φ d	φ C	n× φ h	t	f
50A	JIS10K	155	96	64	120	4×19	16	2
	JIS20K	155	96	64	120	8×19	18	2
	JIS30K	165	105	64	130	8×19	22	2
	JIS40K	165	105	64	130	8×19	26	2
	JIS63K	185	105	64	145	8×23	34	2
80A	JIS10K	185	127	88	150	8×19	18	2
	JIS20K	200	127	88	160	8×23	22	2
	JIS30K	210	127	88	170	8×23	28	2
	JIS40K	210	127	88	170	8×23	32	2
	JIS63K	230	127	88	185	8×25	40	2
100A	JIS10K	210	151	88	175	8×19	18	2
	JIS20K	225	160	88	185	8×23	24	2
	JIS30K	240	160	88	195	8×25	32	2
	JIS40K	250	165	88	205	8×25	36	2
	JIS63K	270	165	88	220	8×27	44	2
50A (2B)	ANSI150	152	92	64	120.6	4×19	19.1	1.6
	ANSI300	165	92	64	127	8×19	22.4	1.6
	ANSI600	165	92	64	127	8×19	31.8	6.4
	ANSI900	216	92	64	165	8×26	44.5	6.4
	ANSI1500	216	92	64	165	8×26	44.5	6.4
80A (3B)	ANSI2500	235	92	64	171.4	8×29	58	6.4
	ANSI150	191	127	88	152.4	4×20	23.9	1.6
	ANSI300	210	127	88	168.1	8×23	28.5	1.6
	ANSI600	210	127	88	168.1	8×23	38.3	6.4
	ANSI900	241	127	88	190.5	8×26	44.5	6.4
100A (4B)	ANSI1500	267	127	88	203.2	8×32	54.2	6.4
	ANSI2500	305	127	88	228.6	8×35	73	6.4
	ANSI150	229	157	88	190.5	8×20	23.9	1.6
	ANSI300	254	157	88	200.2	8×23	31.8	1.6
	ANSI600	273	157	88	215.9	8×26	44.5	6.4
	ANSI900	292	157	88	235	8×32	50.9	6.4
	ANSI1500	311	157	88	241.3	8×35	60.4	6.4
	ANSI2500	356	157	88	273	8×42	82.6	6.4

* JPI flange is the same size as ANSI flange.

* φ d is for diaphragm material of SUS316L

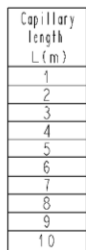
With protruding part (E>0)

Flange standard (similar flange)		φ D	φ F	φ d	φ C	n× φ h	t	f
80A	JIS10K	185	127	64	150	8×19	18	2
	JIS20K	200	127	64	160	8×23	22	2
	JIS30K	210	127	64	170	8×23	28	2
	JIS40K	210	127	64	170	8×23	32	2
	JIS63K	230	127	64	185	8×25	40	2
100A	JIS10K	210	151	88	175	8×19	18	2
	JIS20K	225	160	88	185	8×23	24	2
	JIS30K	240	160	88	195	8×25	32	2
	JIS40K	250	165	88	205	8×25	36	2
	JIS63K	270	165	88	220	8×27	44	2
80A (3B)	ANSI150	191	127	64	152.4	4×20	23.9	1.6
	ANSI300	210	127	64	168.1	8×23	28.5	1.6
	ANSI600	210	127	64	168.1	8×23	38.3	6.4
	ANSI900	241	127	64	190.5	8×26	44.5	6.4
	ANSI1500	267	127	64	203.2	8×32	54.2	6.4
100A (4B)	ANSI2500	305	127	64	228.6	8×35	73	6.4
	ANSI150	229	157	88	190.5	8×20	23.9	1.6
	ANSI300	254	157	88	200.2	8×23	31.8	1.6
	ANSI600	273	157	88	215.9	8×26	44.5	6.4
	ANSI900	292	157	88	235	8×32	50.9	6.4
	ANSI1500	311	157	88	241.3	8×35	60.4	6.4
	ANSI2500	356	157	88	273	8×42	82.6	6.4

* JPI flange is the same size as ANSI flange.

* φ d is for diaphragm material of SUS316L

Item	Code	S
Wetted parts requirement	No additional specifications	70
	HT	170
	LT	120
	V	70



Protruding length E
50
100
150

Without protruding part (E=0)

Flange standard (similar flange)		ϕD	ϕF	ϕd	ϕC	$n \times \phi h$	t	f
80A	JIS10K	185	127	88	150	8×19	18	2
	JIS20K	200	127	88	160	8×23	22	2
	JIS30K	210	127	88	170	8×23	28	2
	JIS40K	210	127	88	170	8×23	32	2
	JIS63K	230	127	88	185	8×25	40	2
100A	JIS10K	210	151	88	175	8×19	18	2
	JIS20K	225	160	88	185	8×23	24	2
	JIS30K	240	160	88	195	8×25	32	2
	JIS40K	250	165	88	205	8×25	36	2
	JIS63K	270	165	88	220	8×27	44	2
80A (3B)	ANSI150	191	127	88	152.4	4×20	23.9	1.6
	ANSI300	210	127	88	168.1	8×23	28.5	1.6
	ANSI600	210	127	88	168.1	8×23	38.3	6.4
	ANSI900	241	127	88	190.5	8×26	44.5	6.4
	ANSI1500	267	127	88	203.2	8×32	54.2	6.4
	ANSI2500	305	127	88	228.6	8×35	73	6.4
100A (4B)	ANSI150	229	157	88	190.5	8×20	23.9	1.6
	ANSI300	254	157	88	200.2	8×23	31.8	1.6
	ANSI600	273	157	88	215.9	8×26	44.5	6.4
	ANSI900	292	157	88	235	8×32	50.9	6.4
	ANSI1500	311	157	88	241.3	8×35	60.4	6.4
	ANSI2500	356	157	88	273	8×42	82.6	6.4

* JPI flange is the same size as ANSI flange.

* ϕd is for diaphragm material of SUS316L

With protruding part (E>0)

Flange standard (similar flange)		ϕD	ϕF	ϕd	ϕC	$n \times \phi h$	t	f
100A	JIS10K	210	151	88	175	8×19	18	2
	JIS20K	225	160	88	185	8×23	24	2
	JIS30K	240	160	88	195	8×25	32	2
	JIS40K	250	165	88	205	8×25	36	2
	JIS63K	270	165	88	220	8×27	44	2
100A (4B)	ANSI150	229	157	88	190.5	8×20	23.9	1.6
	ANSI300	254	157	88	200.2	8×23	31.8	1.6
	ANSI600	273	157	88	215.9	8×26	44.5	6.4
	ANSI900	292	157	88	235	8×32	50.9	6.4
	ANSI1500	311	157	88	241.3	8×35	60.4	6.4
	ANSI2500	356	157	88	273	8×42	82.6	6.4

* JPI flange is the same size as ANSI flange.

* ϕd is for diaphragm material of SUS316L

CODE TABLES

EDR-N8S Intelligent Differential Pressure Transmitter with Remote-Sealed Diaphragm

Model					
EDR-N8S					
No.	Item	Code	Remarks		
1	Range Code	8000	Measuring span 0.748 to 80kPa		
		40000	Measuring span 39.2 to 400kPa		
		100000	Measuring span 100 to 1000kPa		
2	Communication	-	Hitachi communication		
		H	HART communication		
3	Functional safety	-	None		
4	Adjustment range	-	Adjust within 0 to Maximum range		
		C()	Describe adjustment range and unit sign in ()		
5	Explosion-proof	-	None		
		XC	TIS flameproof, Oil-immersion		
6	Indicator	-	None		
		M	With digital indicator (Indication 0 to 100%)		
		MJ()	With digital indicator, describe indication scale and unit sign in actual scale indication ()		
7	Flange standard	JIS	25J10	Flange standard JIS 10K 25A RF-equivalent	Only E0
			25J20	Flange standard JIS 20K 25A RF-equivalent	Only E0
			25J30	Flange standard JIS 30K 25A RF-equivalent	Only E0
			25J40	Flange standard JIS 40K 25A RF-equivalent	Only E0
			25J63	Flange standard JIS 63K 25A RF-equivalent	Only E0
			40J10	Flange standard JIS 10K 40A RF-equivalent	E0/E50 to E150
			40J20	Flange standard JIS 20K 40A RF-equivalent	E0/E50 to E150
			40J30	Flange standard JIS 30K 40A RF-equivalent	E0/E50 to E150
			40J40	Flange standard JIS 40K 40A RF-equivalent	E0/E50 to E150
			40J63	Flange standard JIS 63K 40A RF-equivalent	E0/E50 to E150
			50J10	Flange standard JIS 10K 50A RF-equivalent	E0/E50 to E150
			50J20	Flange standard JIS 20K 50A RF-equivalent	E0/E50 to E150
			50J30	Flange standard JIS 30K 50A RF-equivalent	E0/E50 to E150
			50J40	Flange standard JIS 40K 50A RF-equivalent	E0/E50 to E150
			50J63	Flange standard JIS 63K 50A RF-equivalent	E0/E50 to E150
			80J10	Flange standard JIS 10K 80A RF-equivalent	E0/E50 to E150
			80J20	Flange standard JIS 20K 80A RF-equivalent	E0/E50 to E150
			80J30	Flange standard JIS 30K 80A RF-equivalent	E0/E50 to E150
			80J40	Flange standard JIS 40K 80A RF-equivalent	E0/E50 to E150
			80J63	Flange standard JIS 63K 80A RF-equivalent	E0/E50 to E150
		ANSI	100J10	Flange standard JIS 10K 100A RF-equivalent	E0/E50 to E150
			100J20	Flange standard JIS 20K 100A RF-equivalent	E0/E50 to E150
			100J30	Flange standard JIS 30K 100A RF-equivalent	E0/E50 to E150
			100J40	Flange standard JIS 40K 100A RF-equivalent	E0/E50 to E150
			100J63	Flange standard JIS 63K 100A RF-equivalent	E0/E50 to E150
			25A150	Flange standard ANSI 150 1B RF-equivalent	Only E0
			25A300	Flange standard ANSI 300 1B RF-equivalent	Only E0
			25A400	Flange standard ANSI 400 1B RF-equivalent	Only E0
			25A600	Flange standard ANSI 600 1B RF-equivalent	Only E0
			25A900	Flange standard ANSI 900 1B RF-equivalent	Only E0
			25A1500	Flange standard ANSI 1500 1B RF-equivalent	Only E0
			25A2500	Flange standard ANSI 2500 1B RF-equivalent	Only E0
			40A150	Flange standard ANSI 150 1.5B RF-equivalent	E0/E50 to E150
			40A300	Flange standard ANSI 300 1.5B RF-equivalent	E0/E50 to E150
			40A400	Flange standard ANSI 400 1.5B RF-equivalent	E0/E50 to E150
			40A600	Flange standard ANSI 600 1.5B RF-equivalent	E0/E50 to E150
			40A900	Flange standard ANSI 900 1.5B RF-equivalent	E0/E50 to E150
			40A1500	Flange standard ANSI 1500 1.5B RF-equivalent	E0/E50 to E150
			40A2500	Flange standard ANSI 2500 1.5B RF-equivalent	E0/E50 to E150
			50A150	Flange standard ANSI 150 2B RF-equivalent	E0/E50 to E150
			50A300	Flange standard ANSI 300 2B RF-equivalent	E0/E50 to E150
			50A400	Flange standard ANSI 400 2B RF-equivalent	E0/E50 to E150
			50A600	Flange standard ANSI 600 2B RF-equivalent	E0/E50 to E150
			50A900	Flange standard ANSI 900 2B RF-equivalent	E0/E50 to E150
			50A1500	Flange standard ANSI 1500 2B RF-equivalent	E0/E50 to E150
			50A2500	Flange standard ANSI 2500 2B RF-equivalent	E0/E50 to E150
			80A150	Flange standard ANSI 150 3B RF-equivalent	E0/E50 to E150
			80A300	Flange standard ANSI 300 3B RF-equivalent	E0/E50 to E150
			80A400	Flange standard ANSI 400 3B RF-equivalent	E0/E50 to E150
			80A600	Flange standard ANSI 600 3B RF-equivalent	E0/E50 to E150
			80A900	Flange standard ANSI 900 3B RF-equivalent	E0/E50 to E150
			80A1500	Flange standard ANSI 1500 3B RF-equivalent	E0/E50 to E150
			80A2500	Flange standard ANSI 2500 3B RF-equivalent	E0/E50 to E150
			100A150	Flange standard ANSI 150 4B RF-equivalent	E0/E50 to E150
			100A300	Flange standard ANSI 300 4B RF-equivalent	E0/E50 to E150
			100A400	Flange standard ANSI 400 4B RF-equivalent	E0/E50 to E150
			100A600	Flange standard ANSI 600 4B RF-equivalent	E0/E50 to E150
			100A900	Flange standard ANSI 900 4B RF-equivalent	E0/E50 to E150
			100A1500	Flange standard ANSI 1500 4B RF-equivalent	E0/E50 to E150
			100A2500	Flange standard ANSI 2500 4B RF-equivalent	E0/E50 to E150

7	Flange standard	JPI	25JP150	Flange standard	JPI	150	1B	RF-equivalent	Only E0
			25JP300	Flange standard	JPI	300	1B	RF-equivalent	Only E0
			25JP400	Flange standard	JPI	400	1B	RF-equivalent	Only E0
			25JP600	Flange standard	JPI	600	1B	RF-equivalent	Only E0
			25JP900	Flange standard	JPI	900	1B	RF-equivalent	Only E0
			25JP1500	Flange standard	JPI	1500	1B	RF-equivalent	Only E0
			25JP2500	Flange standard	JPI	2500	1B	RF-equivalent	Only E0
			40JP150	Flange standard	JPI	150	1.5B	RF-equivalent	E0/E50 to E150
			40JP300	Flange standard	JPI	300	1.5B	RF-equivalent	E0/E50 to E150
			40JP400	Flange standard	JPI	400	1.5B	RF-equivalent	E0/E50 to E150
			40JP600	Flange standard	JPI	600	1.5B	RF-equivalent	E0/E50 to E150
			40JP900	Flange standard	JPI	900	1.5B	RF-equivalent	E0/E50 to E150
			40JP1500	Flange standard	JPI	1500	1.5B	RF-equivalent	E0/E50 to E150
			40JP2500	Flange standard	JPI	2500	1.5B	RF-equivalent	E0/E50 to E150
			50JP150	Flange standard	JPI	150	2B	RF-equivalent	E0/E50 to E150
			50JP300	Flange standard	JPI	300	2B	RF-equivalent	E0/E50 to E150
			50JP400	Flange standard	JPI	400	2B	RF-equivalent	E0/E50 to E150
			50JP600	Flange standard	JPI	600	2B	RF-equivalent	E0/E50 to E150
			50JP900	Flange standard	JPI	900	2B	RF-equivalent	E0/E50 to E150
			50JP1500	Flange standard	JPI	1500	2B	RF-equivalent	E0/E50 to E150
			50JP2500	Flange standard	JPI	2500	2B	RF-equivalent	E0/E50 to E150
			80JP150	Flange standard	JPI	150	3B	RF-equivalent	E0/E50 to E150
			80JP300	Flange standard	JPI	300	3B	RF-equivalent	E0/E50 to E150
			80JP400	Flange standard	JPI	400	3B	RF-equivalent	E0/E50 to E150
			80JP600	Flange standard	JPI	600	3B	RF-equivalent	E0/E50 to E150
			80JP900	Flange standard	JPI	900	3B	RF-equivalent	E0/E50 to E150
			80JP1500	Flange standard	JPI	1500	3B	RF-equivalent	E0/E50 to E150
			80JP2500	Flange standard	JPI	2500	3B	RF-equivalent	E0/E50 to E150
			100JP150	Flange standard	JPI	150	4B	RF-equivalent	E0/E50 to E150
			100JP300	Flange standard	JPI	300	4B	RF-equivalent	E0/E50 to E150
			100JP400	Flange standard	JPI	400	4B	RF-equivalent	E0/E50 to E150
			100JP600	Flange standard	JPI	600	4B	RF-equivalent	E0/E50 to E150
			100JP900	Flange standard	JPI	900	4B	RF-equivalent	E0/E50 to E150
			100JP1500	Flange standard	JPI	1500	4B	RF-equivalent	E0/E50 to E150
			100JP2500	Flange standard	JPI	2500	4B	RF-equivalent	E0/E50 to E150
8	Protruding flange part and diaphragm cover	E0	Protruding part length 0mm						
		E50	Protruding part length 50mm Aperture 25A, 1B not allowed						
		E100	Protruding part length 100mm Aperture 25A, 1B not allowed						
		E150	Protruding part length 150mm Aperture 25A, 1B not allowed						
		EZ50	Protruding part length High pressure 50mm, Low pressure 0mm (Flange diameter is smaller than high pressure by one size) Aperture 25A, 1B not allowed						
		EZ100	Protruding part length High pressure 100mm, Low pressure 0mm (Flange diameter is smaller than high pressure by one size) Aperture 25A, 1B not allowed						
		EZ150	Protruding part length High pressure 150mm, Low pressure 0mm (Flange diameter is smaller than high pressure by one size) Aperture 25A, 1B not allowed						
9	Capillary length	Wafer type	1	Capillary length 1m					
			2	Capillary length 2m					
			3	Capillary length 3m					
			4	Capillary length 4m					
			5	Capillary length 5m					
			6	Capillary length 6m E>0 for aperture 25A, 1B, and 40A, 1.5B not allowed					
			7	Capillary length 7m E>0 for aperture 25A, 1B, and 40A, 1.5B not allowed					
			8	Capillary length 8m E>0 for aperture 25A, 1B, and 40A, 1.5B not allowed					
			9	Capillary length 9m E>0 for aperture 25A, 1B, and 40A, 1.5B not allowed					
			10	Capillary length 10m E>0 for aperture 25A, 1B, and 40A, 1.5B not allowed					
		Back ejection type	1U	Capillary Back ejection	Length	1m	Specify side ejection when VT or SVT is specified.		
			2U	Capillary Back ejection	Length	2m	Specify side ejection when VT or SVT is specified.		
			3U	Capillary Back ejection	Length	3m	Specify side ejection when VT or SVT is specified.		
			4U	Capillary Back ejection	Length	4m	Specify side ejection when VT or SVT is specified.		
			5U	Capillary Back ejection	Length	5m	Specify side ejection when VT or SVT is specified.		
			6U	Capillary Back ejection	Length	6m	E>0 for aperture 25A, 1B, and 40A, 1.5B not allowed, Specify side ejection when VT or SVT is specified.		
			7U	Capillary Back ejection	Length	7m	E>0 for aperture 25A, 1B, and 40A, 1.5B not allowed, Specify side ejection when VT or SVT is specified.		
			8U	Capillary Back ejection	Length	8m	E>0 for aperture 25A, 1B, and 40A, 1.5B not allowed, Specify side ejection when VT or SVT is specified.		
			9U	Capillary Back ejection	Length	9m	E>0 for aperture 25A, 1B, and 40A, 1.5B not allowed, Specify side ejection when VT or SVT is specified.		
			10U	Capillary Back ejection	Length	10m	E>0 for aperture 25A, 1B, and 40A, 1.5B not allowed, Specify side ejection when VT or SVT is specified.		

10	Material	-	Diaphragm:SUS316L Wetted part:SUS316
		316L	Diaphragm:SUS316L Wetted part:SUS316L
		HC	Diaphragm:Hastelloy C Wetted part:Hastelloy C
		TA	Diaphragm:Tantalum Wetted part:Tantalum Only E0
11	Bolt/mounting plate material	-	Sensor body flange Bolt:SCM435 Mounting plate:SPCC U-Bolt:SUS304
		S630	Sensor body flange Bolt:SUS630 Mounting plate:SUS304 U-Bolt:SUS304
12	Sealed liquid	-	Silicone oil
		FO	Fluorine oil
		100CS	Sanitary silicon oil
		PG	Propylene glycol
13	Oil prohibition	-	No finish
		NL	Oil prohibitive finish
		NLW	Oil and water prohibitive finish
14	Wetted parts conditions	-	Standard
		HT	High temperature type Wetted parts temperature -10 to 310℃ * Sealed liquid code cannot be specified.
		LT	Low temperature type Wetted parts temperature -70 to 60℃ * Sealed liquid code cannot be specified.
		V	Vacuum type Wetted parts temperature -20 to 180℃ * Sealed liquid code cannot be specified.
		WVT	Wafer type High temperature vacuum type Wetted parts temperature -10 to 310℃ * Sealed liquid code cannot be specified. Only side ejection of capillary is supported.
		VT	High temperature vacuum type Wetted parts temperature -10 to 310℃ * Sealed liquid code cannot be specified. Only flange sizes E0 of 80A and 100A are supported. Only backside extraction of capillary is supported.
		SVT	High temperature / high vacuum type Wetted parts temperature 10 to 310℃ Operable vacuum:0.0133 kPa abs. * Sealed liquid code cannot be specified. Only flange sizes E0 of 80A and 100A are supported. The material of the diaphragm is limited to Hastelloy C. Only backside extraction of capillary is supported.

Example of code description:EDR-N8S-8000-XC-80J10-E0-5

- HART® is a registered trademark of the Field Comm Group.
- Please read the “Instruction Manual” carefully before use.
- Appearance and specifications are subject to change partially for improvement.