



PRESSURE TRANSMITTER

DATA SHEET FKG...5

The FCX-AIII pressure transmitter accurately measures gauge pressure and transmits a proportional 4 to 20mA signal.

The transmitter utilizes a unique micromachined capacitance silicon sensor with state-of-the-art microprocessor technology to provide exceptional performance and functionality.



1. High accuracy up to ±0.04%

0.065% accuracy as standard, 0.04% accuracy as option. Fuji's micro-capacitance silicon sensor assures this accuracy for all elevated or suppressed calibration ranges without additional adjustment.

2. Minimum environmental influence

The "Advance Floating Cell" design which protects the pressure sensor against changes in temperature, and overpressure substantially reduces total measurement error in actual field applications.

3. Fuji/HART® bilingual communications protocol

FCX-AIII series transmitter offers bilingual communications to speak both Fuji proprietary protocol and HART®. Any HART® compatible devices can communicate with FCX-AIII.

4. Application flexibility

Various options that render the FCX-AIII suitable for almost any process applications include:

- Full range of hazardous area approvals
- Built-in RFI filter and lightning arrester
- 5-digit LCD meter with engineering unit
- Stainless steel electronics housing

Burnout current flexibility (Under Scale: 3.2 to 4.0mA, Over Scale: 20.0 to 22.5mA)

Burnout signal level is adjustable using Model FXW Hand Held Communicator (HHC) to comply with NAMUR NE43.

6. Dry calibration without reference pressure

Thanks to the best combination of unique construction of mechanical parts (Sensor unit) and high performance electronics circuit (Electronics unit), reliability of dry calibration without reference pressure is at equal level as wet calibration.

SPECIFICATIONS

Functional specifications

Service: Liquid, gas, or vapour

Output signal: 4 to 20mA DC with digital signal super-

imposed on the 4 to 20mA signal.

Power supply: Transmitter operates on 10.5V to 45V DC

at transmitter terminals.

10.5 V to 32 V DC for the units with optional

arrester.





[L-Type]

[T-Type]

Span, range and overrange limit:

Type	Span limit [kPa] {bar}		Range [kPa]	Overrange limit	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Min.	Max.	Lower limit	Upper limit	[MPa] {bar}
FKG□01	1.3	130	-100	130	1
	{0.013}	{1.3}	{-1}	{1.3}	{10}
FKG□02	5	500	-100	500	1.5
	{0.05}	{5}	{-1}	{5}	{15}
FKG□03	30	3000	-100	3000	9
	{0.3}	{30}	{-1}	{30}	{90}
FKG□04	100	10000	-100	10000	15
	{1}	{100}	{-1}	{100}	{150}
FKG□05	500	50000	-100	50000	75
	{5}	{500}	{-1}	{500}	{750}

Remark: To minimize environmental influence, span should be greater than 1/40 of the max. span in most applications.

- Lower range limit (vacuum limit);

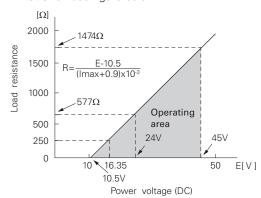
Silicone fill sensor: See Fig. 1

Fluorinated fill sensor: 66kPa abs (500mmHg abs) at below 60°C

Conversion factors to different units;

1 MPa= 10^3 kPa=10bar=10.19716kgf/cm²= 145.0377psi 1kPa=10mbar=101.9716mmH $_2$ O =4.01463inH $_2$ O

Load limitations: see figure below



Note: For communication with HHC $^{(1)}$ (Model: FXW), min. of 250 Ω required.

Damping:

Hazardous locations: (Under an application) SEE TABLE2 Zero/span adjustment:

Zero and span are adjustable from the HHC⁽¹⁾. Zero and span are also adjustable

externally from the adjustment screw. Adjustable from HHC or local configurator

unit with LCD display.

The time constant is adjustable between

0.06 to 32 seconds.

Zero elevation/suppression:

Zero can be elevated or suppressed within the specified range limit of each

sensor model.

Normal/reverse action:

Selectable from HHC⁽¹⁾.

Indication: Analog indicator or 5-digit LCD meter, as

specified.

Burnout direction: Selectable from HHC(1)

If self-diagnostic detect transmitter failure, the analog signal will be driven to either "Output Hold", "Output Overscale" or

"Output Underscale" modes.

"Output Hold"

Output signal is hold as the value just

before failure happens.

"Output Overscale":

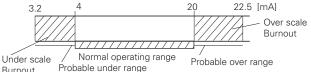
Adjustable within the range 20.0mA to

22.5mA from HHC(1)

"Output Underscale":

Adjustable within the range 3.2mA to

4.0mA from HHC



Output limits conforming to NAMUR NE43 by order.

Loop-check output:

Transmitter can be configured to provide constant signal 3.2mA through 22.5mA by HHC.

Temperature limit:

Ambient: -40 to +85°C

(-20 to +80°C for LCD indicator)

(-40 to +60°C for arrester option)

(-10 to +60°C for fluorinated oil fill

transmitter)

For explosionproof units (flameproof or intrinsic safety), ambient temperature must be within the limits specified by each standard.

Process: -40 to +100°C for silicone fill sensor

-20 to $+80^{\circ}\text{C}$ for fluorinated oil fill sensor

Storage: -40 to +90°C

Humidity limit: 0 to 100% RH

be remotely displayed or configured.

Note: HHC's version must be higher than

7.0 (or FXW _____1__1____1, for FCX -

A**I**I.

Local configurator with LCD display (option):

Local configurator with 3 push button and LCD display can support following

Items	By communication with FXW		By local configurator (with 3 push button)		
	Display	Set	Display	Set	
Tag No.	V	V	V	V	
Model No.	V	V	V	V	
Serial No. & Software Version	V	_	V	_	
Engineering unit	V	V	V	V	
Range limit	V	_	V	_	
Measuring range	V	V	V	V	
Damping	V	V	V	V	
Output mode	V	_	V	_	
Burnout direction	V	V	V	V	
Calibration	V	V	V	V	
Output adjust	_	V	_	V	
Data	V	_	V		
Self diagnoses	V	_	V		
Printer (In case of FXW with printer option)	V	_	_	_	
External switch lock	V	V	V	V	
Transmitter display	V	V	V	V	
Linearize	V	V	_	_	
Rerange	V	V	V	V	
Saturate current	V	V	V	V	
Write protect	V	V	V	V	
History - Calibration history - Ambient temperature history	V V	<u>v</u>	V V	<u>v</u>	

Performance specifications

Reference conditions, silicone oil fill, 316SS isolating diaphragms, 4 to 20mA analog output in linear mode.

Accuracy rating: (including linearity, hysteresis, and re-

peatability)

Max span below 10000kPa model:

For spans greater than 1/10 of URL:

±0.065% of span or

±0.04% of span (21th digit: H)

For spans below 1/10 of URL:

$$\pm \left(0.015 + 0.05 \frac{0.1 \times URL}{Span}\right)$$
 % of span

Max span 50000kPa model:

For spans greater than 1/10 of URL: ±0.1% of span For spans below 1/10 of URL:

 $\pm \left(0.05 + 0.05 \frac{0.1 \times \text{URL}}{\text{Span}}\right)\% \text{ of span}$

Stability: $\pm 0.1\%$ of upper range limit (URL) for 10

years.

Temperature effect:

Effects per 28°C change between the

limits of -40°C and $+85^{\circ}\text{C}$

Zero shift: \pm (0.075+0.0125 $\frac{URL}{span}$)%

Total effect: $\pm (0.095+0.0125 \frac{URL}{span})\%$

Overrange effect: Zero shift; 0.2% of URL for any over-

range to maximum limit

Supply voltage effect:

Less than 0.005% of calibrated span per

1V

Update rate: 60 msec

Step response: Time constant: 0.08s (at 23°C)

Dead time: approximately 0.12s (without electrical damping)

Mounting position effect:

Zero shift, less than 0.1kPa {1m bar} for a 10° tilt in any plane.

No effect on span. This error can be cor-

rected by adjusting Zero.

Dielectric strength:

500V AC, 50/60Hz 1 min., between circuit and earth.

Insulation resistance:

More than $100M\Omega$ at 500V DC.

Internal resistance for external field indicator:

 12Ω or less

Physical specifications

Electrical connections:

 $G^{1/2}$, $^{1/2}$ -14 NPT, Pg13.5, or M20 \times 1.5 conduit, as specified.

Process connections:

1/4-18 NPT or Rc1/4 on 54mm centers, as

specified. Meet DIN 19213

Process-wetted parts material:

l e t e symbols)	airetaM doc Pgojodesanto⊽vjer doCni	Diaphragm	Wetted sensor body	Vent/drain
V	316 stainless steel(*1)	316L stainless steel	316 stainless steel	316 stainless steel
W	316 stainless steel(*1)	Hastelloy-C	316 stainless steel	316 stainless steel
J	316 stainless steel(*1)	316L stainless steel +Au coating	316 stainless steel	316 stainless steel
Н	316 stainless steel(*1)	Hastelloy-C	Hastelloy-C lining	316 stainless steel
М	316 stainless steel(*1)	Monel	Monel lining	316 stainless steel
T	316 stainless steel(*1)	Tantalum	Tantalum Iining	316 stainless steel

Note: *(1) ASTM CF8M

Remark: Availability of above material design depends on ranges. Refer to "Code symbols".

Non-wetted parts material:

Electronics housing: Low copper die-cast aluminum alloy finished with polyester coating (standard), or 316 stainless steel (SCS14 per JIS G5121), as speci-

Bolts and nuts: Cr-Mo alloy (standard), 304 or 316 stainless steel (630 stainless steel for 50MPa unit).

Fill fluid: Silicone oil (standard) or fluorinated oil

Mounting bracket: 304 or 316 stainless steel

Environmental protection:

IEC IP67 and NEMA 6/6P

Mounting: On 60.5mm (JIS 50A) pipe using mount-

ing bracket, direct wall mounting, or di-

rect process mounting.

Mass {weight}: Transmitter approximately 2.9 to 3.4kg

without options.

Add; 0.5kg for mounting bracket 4.5kg for stainless steel housing option

Optional features

A plug-in analog indicator (2.5% accuracy) Indicator:

An optional 5-digit LCD meter with engi-

neering unit is also available.

Local configurator with LCD display:

An optional 5 digits LCD meter with 3 push buttons can support items as using

communication with FXW.

Arrester: A built-in arrester protects the electronics

from lightning surges. Lightning surge immunity:

 $4kV (1.2 \times 50 \mu s)$

Oxygen service: Special cleaning procedures are followed

throughout the process to maintain all

process wetted parts oil-free. The fill fluid is fluorinated oil.

Chlorine service: The fill fluid is fluorinated oil.

Degreasing: Process-wetted parts are cleaned, but the

fill fluid is standard silicone oil. Not for use

on oxygen or chlorine measurement.

NACE specification:

Metallic materials for all pressure boundary parts comply with NACE MR-01-75. ASTM B7M or L7M bolts and 2HM nuts

(Class II) are available.

Vacuum service: Special silicone oil and filling procedure

are applied. See Fig.1.

Optional tag plate:

An extra stainless steel tag with custom-

er tag data is wired to the transmitter.

Coating of cell: Cell's surface is finished with epoxy/poly-

urethane double coating. Specify if environment is extermely corrosive.

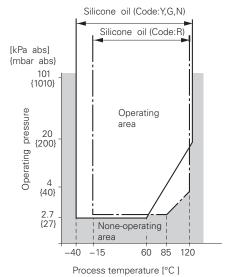


Fig. 1 Relation between process temperature and operating pressure

CODE SYMBOLS

						1 2 3 4 5	6 7	8 9 10	11 12 13 14 1	5 21 🕶	– Digit No.
Digit				Note	FKG 0		5 - 🗍	Ш-П]- [of code	
4	<connections></connections>										
	Process	Oval flange	Conduit	Case type							
	connection Rc1/4	7/16-20UNF	connection G1/2	T type							
	1/4-18NPT	7/16-20UNF	1/2-14NPT	T type		5 6					
	1/4-18NPT	M10 (or M12)(*1)	Pg13.5	Ttype	Note 1	7					
	1/4-18NPT	M10 (or M12)(*1)	M20×1.5	T type	Note 1	8	1 1	1.1			
	1/4-18NPT	7/16-20UNF	Pg13.5	Ttype	I VOIC I	9					
	Rc1/4	7/16-20UNF	G1/2	L type		9 S	† <u>†</u>				
	1/4-18NPT	7/16-20UNF	1/2-14NPT	L type		т					
	1/4-18NPT	M10 (or M12)(*1)	Pg13.5	L type	Note 1	v					
	1/4-18NPT	M10 (or M12)(*1)	M20×1.5	L type	Note 1	l w					
	1/4-18NPT	7/16-20UNF	Pg13.5	L type		X					
6, 7	<span and="" ma<="" td=""><td></td><td></td><td></td><td> </td><td></td><td></td><td></td><td></td><td></td><td></td>										
	Span limit	Process cover	Diaphragm	Wetted cell body	Note 2						
	[kPa]{bar}(*2)										
	1.3130	316 stainless steel	316L stainless st				1V				
	{0.0131.3}	316 stainless steel	Hast. C	SUS316 eel 316 stainless steel			1W				
		316 stainless steel	316L stainless st	eei 316 stainiess steei			1J				
		316 stainless steel	+Au coating Hast. C	Hast. C lining			1H				
		316 stainless steel	Monel	Monel lining			1M				
		316 stainless steel	Tantalum	Tantalum lining			1T				
	5500	316 stainless steel	316L stainless st				2V				
	{0.055}	316 stainless steel	Hast. C	SUS316			2W				
		316 stainless steel	316L stainless st	eel 316 stainless steel			2J	1.1			
			+Au coating								
		316 stainless steel	Hast. C	Hast. C lining			2H				
		316 stainless steel	Monel	Monel lining			2M				
		316 stainless steel	Tantalum	Tantalum lining			2T				
	303000	316 stainless steel	316L stainless st				3V				
	{0.330}	316 stainless steel	Hast. C	SUS316			3W				
		316 stainless steel	316L stainless st	eel 316 stainless steel			3J				
		316 stainless steel	+Au coating Hast. C	Hast. C lining			3H				
		316 stainless steel	Monel	Monel lining			3M				
		316 stainless steel	Tantalum	Tantalum lining			3T				
	10010000	316 stainless steel	316L stainless st				4V				
	{1100}	316 stainless steel	Hast. C	SUS316			4W				
		316 stainless steel	316L stainless st	eel 316 stainless steel			4J				
			+Au coating								
		316 stainless steel	Hast. C	Hast. C lining			4H	1111			
		316 stainless steel	Monel	Monel lining			4M				
		316 stainless steel	Tantalum	Tantalum lining			4T				
	50050000	316 stainless steel	316L stainless st				5V				
	{5500}	SCS14	Hast. C	SUS316			5W				
		316 stainless steel	316L stainless st	eel 316 stainless steel			5J				
			+Au coating								
9	<indicator and<="" td=""><td>arrester></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></indicator>	arrester>									
	Indicator_			Arrester							
	None			None				A			
		00% linear scale		None				В			
	Analog, custon	n scale		None			 	D			
	None	100/ lines = ===!-		Yes				Ē			
	Analog, 0 to 10	00% linear scale		Yes Yes				H			
		n scale 0% linear scale		None			 				
	Digital, custom			None				P			
		0% linear scale		Yes				Q Q			
	Digital, custom			Yes				S			
	<u>Y</u> '	0% linear scale				†	11	1			
		rator unit with LCD dis	splay)	None							
	Digital, custom	n scale						2			
		rator unit with LCD dis	splay)	None							
	Digital, 0 to 100							4			
		rator unit with LCD dis	splay)	Yes				_			
	Digital, custom			V				5			
	(Local configur	rator unit with LCD dis	splay)	Yes							

Note 1: (*1) For 50MPa {500bar} units, M12 is provided rather than M10.

Note 2: (*2) 100: 1 turn down is possible, but should be used at the span greater than

1/40 of the maximum span for better performance.

			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 21 → Dig	git No
Digit	Description	Note		code
10	<approvals for="" hazardous="" locations=""></approvals>			
	None (for ordinary locations)		A	
	TIIS, Flameproof (Cable gland seal) (*6)	Note 6		
	TIIS, Intrinsic safety		<u>G</u>	
	FM, Flameproof (or explosionproof) (*9)	Note 9		
	FM, Intrinsic safety and nonincentive	N		
	FM Combined of flameproof and intrinsic safety (*9)	Note 9 Note 8		
	ATEX Flameproof (*8)	Note 8		
	ATEX Intrinsic safety		K P	
	ATEX Type n ATEX Combined of flameproof and intrinsic safety (*8)	Note 8		
	IECEx Scheme, Flameproof (*8)	Note 8	IVI IVI	
	IECEX Scheme, Intrinsic safety	Note o		
	CSA, Flameproof (or explosionproof) (*9)	Note 9		
	CSA, Intrinsic safety and nonincentive			
	NEPSI, Flameproof (or exprosionproof)	ł	ĕ ĕ ĕ ĕ	
	NEPSI, Intrinsic safety			
	NEPSI, Combined of flameproof and intrinsic safety			
11	<pre><vent and="" bracket="" drain="" mounting=""></vent></pre>			
	Vent/drain Mounting bracket Process connection			
	Standard None Standard			
	Standard Yes, SUS304 Standard			
	Standard Yes, SUS316 Standard			
	Side None Standard		D	
	Side Yes, SUS304 Standard			
	Side Yes, SUS316 Standard			
12	<options></options>			
	Extra SS tag plate Stainless steel elec. housing Coating of cell			
	None None		<u>Y</u>	
	Yes None None	ļ	B	
	None (*3) None Yes	Note 3	M	
	Yes None Yes	l	N	
	None Yes (*5)	Note 5		
10	Yes Yes Yes Yes	Note 5		
13	<special and="" applications="" fill="" fluid=""></special>			
	Treatment Fill fluid Standard Silicone oil			
	Standard Silicone oil Standard Fluorinated oil		Y	
	Degreasing Silicone oil			
	Oxygen service Fluorinated oil (7th digit code "V", "W", "J" only)	ł		
	Chlorine service Fluorinated oil (7th digit code "H", "T")			
	NACE specification Silicone oil (Not available for 6th digit code "5", 7th			
	digit code "T", 15th digit code "A", "B")			
	Vacuum service Silicone oil for vacuum use			
14	<sensor gasket="" o-ring=""></sensor>			
	Teflon (gasket)		в ; ; ;	
15	<bolt nut=""> (*10) (Vent Drain plug type)</bolt>	Note 10		
	Cr-Mo alloy hexagon socket head cap screw/carbon steel nut Standard		A	
	Cr-Mo alloy hexagon bolt/nut Standard	ļ	В	
	NACE bolt/nut (ASTM A193 B7M/A194 2HM) Standard	Note 11	c [1]	
	NACE bolt/nut (ASTM A320 L7M/A194 2HM) { (*11) Standard	Note 11	D	
	304 stainless steel bolt/304 stainless steel nut Standard	Note 11	<u> </u>	
	630 stainless steel bolt/304 stainless steel nut (*12) Standard	Note 12		
	316 stainless steel bolt/316 stainless steel nut (*11) Standard	Note 11	U	
21	<other options=""> (*4)</other>	Note 4		
	High accuracy type (*11) Instruction manual attached	Note 11	H	
	Opposite Vent/Drain Plug Position Instruction manual attached		C	
	Instruction manual unattached		L	
	Opposite Vent/Drain Plug Position Instruction manual unattached		Р	

Note3: (*3) Customer tag number can be engraved on standartd stainless steel name plate. If extra tag plate is required, select "Yes".

Note4: (*4) If other option is not necessary, 21st digit code is blank. In case of 21st digit code is blank, instruction manual attached.

Note5: (*5) Not available for 10th digit code "C".

Note6: (*6) Available for 4th digit code "S".

Note8: (*8) Available for 4th digit code "6", "8", "T", "W".

Note9: (*9) Available for 4th digit code "6", "T".

Note10: (*10) In case of tropical use, select stainless bolts and nuts.

Note11: (*11) Not available for 6th digit code "5".

Note12: (*12) Available for 6th digit code "5".

ACCESSORIES

Oval flanges: (Model FFP, refer to Data Sheet No.

EDS6-128)

Converts process connection to 1/2-14 NPT or to Rc1/2; in carbon steel or in 316 stainless steel.

Hand-held communicator:

(Model FXW, refer to Data Sheet No. EDS8-47)

ORDERING INFORMATION

When ordering this instrument, specify.

- 1. CODE SYMBOLS
- 2. Measuring range
- 3. Output orientation (burnout direction) when abnormality is occured in the transmitter.

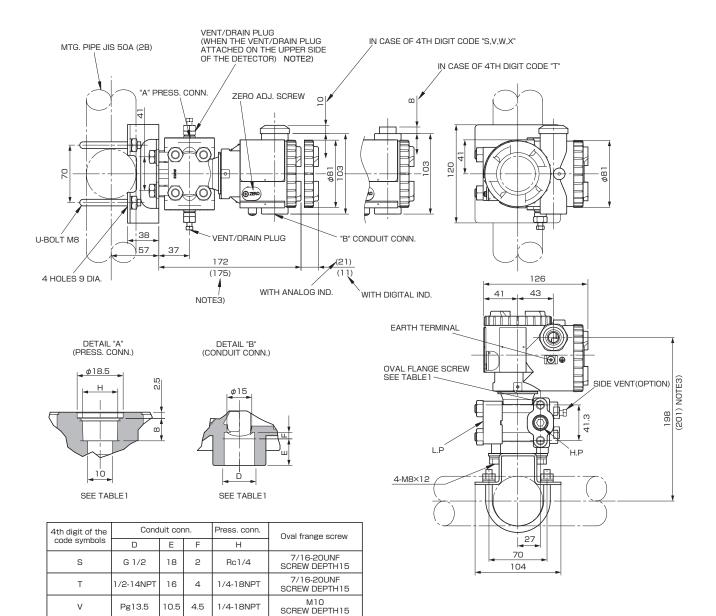
Hold/Overscale/Overscale

Unless otherwise specified, output hold function is sup-

- 4. Indication method (indicated value and unit) in case of the actual scale (code D,H,P,S on 9th digit).
- 5. Tag No.(up to 14 alphanumerical characters), if required.

OUTLINE DIAGRAM (Unit:mm)

<AMP. case: L type>



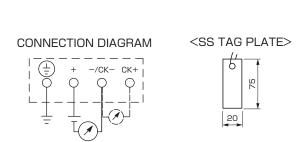
M10

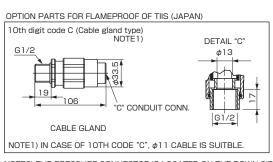
SCREW DEPTH15 7/16-20UNF SCREW DEPTH15

4.5 1/4 TABLE 1

1/4-18NPT

1/4-18NPT





NOTE2) THE PRESSURE CONNECTOR IS LOCATED ON THE DOWN SIDE SURFACE OF THE DETECTOR, WHEN THE VENT/DRAIN PLUG IS ATTACHED ON THE UPPER SIDE OF THE DETECTOR (WHEN THE 21ST DIGIT OF THE CODE SYMBOLS: C.P.).
NOTE3) WHEN THE 7TH DIGIT OF THE CODE SYMBOLS "H,M,T"

W

Χ

M20×1.5

Pg13.5

16 4

10.5

<AMP. case: T type>

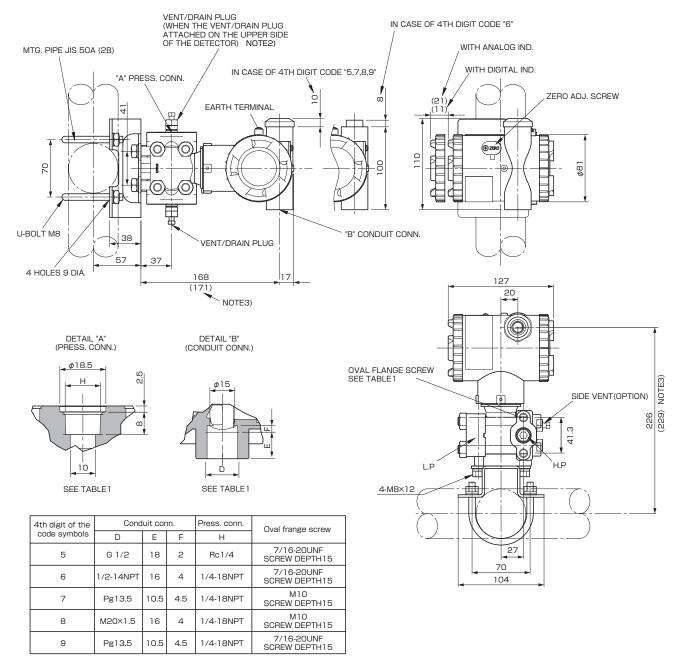
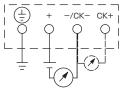


TABLE 1





NOTE2) THE PRESSURE CONNECTOR IS LOCATED ON THE DOWN SIDE SURFACE OF THE DETECTOR, WHEN THE VENT/DRAIN PLUG IS ATTACHED ON THE UPPER SIDE OF THE DETECTOR (WHEN THE 21ST DIGIT OF THE CODE SYMBOLS: C.P.).

NOTE3) WHEN THE 7TH DIGIT OF THE CODE SYMBOLS "H,M,T"

TABLE 2

Authorities	Intrinsic safety					
ATEX	Ex II 1 G Ex ia IICT5 Tamb Ex ia IICT4 Tamb					
	Entity Parameters: Ui=28V, Ii=94.3mA, Pi=0.66W, Ci=26nF (Without Arrester), Li=0.6mH (Without analog indicator), Ci=36nF (With Arrester), Li=0.7mH (With analog indicator)					
Factory Mutual	Class I II III Div.1 Groups A, B, T4 Entity Type 4X	C, D, E, F, G				
	Model code 9th digit A,B,D	13th digit Y,G,N,R	- Tamb -40°C to +85°C			
	L,P,1,2 Q,S,4,5 E,F,H	Y,G,N,R Y,G,N,R Y,G,N,R W,A,D	-20°C to +80°C -20°C to +60°C -40°C to +60°C -10°C to +60°C			
	Entity Parameters: Vmax=28V, Imax=94.3mA, Pi=0.66W, Ci=35.98nF, Li=0.694mH					
CSA	Class I Div.1 Groups A, B, C, D Class II Div.1 Groups E, F, G Class III Div.1 Temp Code T5 Tamb max = +50°C Temp Code T4 Tamb max = +70°C Entity Parameters: Vmax=28V, Imax=94.3mA, Ci=25nF (Without Arrester), Ci=36nF (With Arrester), Li=0.6mH (Without analog meter), Li=0.7mH (With analog meter)					
TIIS	Ex ia IICT4 Tamb max = +60°C Entity Parameters: Ui=28V, Ii=94.3mA, Pi=0.66W, Ci=38.4nF, Li=0.694mH					
IECEx Scheme	Ex ia IICT4 Tamb = -40°C to +70°C Ex ia IICT5 Tamb = -40°C to +50°C Entity Parameters: Ui=28V, Ii=94.3mA, Pi=0.66W, Ci=26nF (Without Arrester), Li=0.6mH (Without analog indicator), Ci=36nF (With Arrester), Li=0.7mH (With analog indicator)					
NEPSI	Ex ia IICT4 Ex d IIB+H ₂ T6 / Ex i	a IICT4				
	Model code 9th digit A,B,D L,P,1,2 Q,S,4,5 E,F,H	13th digit Y,G,N,R Y,G,N,R Y,G,N,R Y,G,N,R W,A,D	Tamb -40°C to +85°C -20°C to +80°C -20°C to +60°C -40°C to +60°C -10°C to +60°C			
	Entity Parameters: Ui=42.4V, Ii=113m, Ci=35.98nF, Li=0.6	A, Pi=1W,				

Flameproof				
Ex II 2 GD Ex d IIC T6 IP66/67 T85°C Tamb = -40°C to +65°C Ex d IIC T5 IP66/67 T100°C Tamb = -40°C to +85°C				
Class I Div.1 Groups B, C, D T6 Type 4X Class II III Div.1 Groups E, F, G T6 Type 4X Tamb max = +60°C				
Class I Div.1 Groups C, D Class II Div.1 Groups E, F, G Class III Div.1				
Note) "Seal Not Requ	ired" enclosure	is allowed.		
Ex do IIB+H ₂ T4 Tamb max = +60°C Maximum process temp. = +120°C				
Ex d IICT5 IP66/67 Tamb = -40°C to +85°C Ex d IICT6 IP66/67 Tamb = -40°C to +65°C				
Ex d IIB+ H_2 T6 Tamb = -40 °C to +6	60°C			
	Type n Nonincendive			
EEx nL IICT4 Tamb Specific Parameters: Model without arrest Ui=42.4V, Ii=113mA Ci=25.18nF, Li=0.69 Model with arrester: Ui=32V, Ii=113mA, F Ci=35.98nF, Li=0.69	= -40°C to +70 er: , Pi=1W, 4mH Pi=1W, 4mH	°C		
EEx nAL IIC 15 Iamb = -40°C to +50°C EEx nAL IIC T4 Tamb = -40°C to +70°C Specific Parameters: Model without arrester: Umax=42.4V, Imax=113mA, Pmax=1W Model with arrester: Umax=32V, Imax=113mA, Pmax=1W				
Class I II III Div.2 Groups A, B, C T4 Entity Type 4X	C, D, F, G			
Model code 9th digit A,B,D L,P,1,2 Q,S,4,5 E,F,H -	13th digit Y,G,N,R Y,G,N,R Y,G,N,R Y,G,N,R W,A,D	Tamb -40°C to +85°C -20°C to +80°C -20°C to +60°C -40°C to +60°C -10°C to +60°C		
Class II Div.2 Groups E, F, G Class III Div.2 Temp Code T5 Tan	nb max = +50°C			
	Ex d IIC T6 IP66/67 Tamb = -40°C to + Ex d IIC T5 IP66/67 Tamb = -40°C to + Ex d IIC T5 IP66/67 Tamb = -40°C to + Ex d IIC T5 IP66/67 Tamb = -40°C to + Ex d IIC T5 IP66/67 Tamb = -40°C T6 T9pe 4X Tamb max = +60°C T6 T9pe 4X Tamb max = +60°C T9pe 4X Tamb = -40°C T0 +60°C T0	Ex II 2 GD Ex d IIC T6 IP66/67 T85°C Tamb = -40°C to +65°C Ex d IIC T5 IP66/67 T100°C Tamb = -40°C to +85°C Class I Div.1 Groups B, C, D T6 Type 4X Class II III Div.1 Groups E, F, G T6 Type 4X Tamb max = +60°C Class II Div.1 Groups C, D Class III Div.1 Groups E, F, G Class III Div.1 Groups E, F, G Class III Div.1 Groups E, F, G Class III Div.1 Mote) "Seal Not Required" enclosure Ex do IIB+H ₂ T4 Tamb max = +60°C Maximum process temp. = +120°C Ex d IIC T5 IP66/67 Tamb = -40°C to +85°C Ex d IIC T6 IP66/67 Tamb = -40°C to +65°C Ex d IIB+H ₂ T6 Tamb = -40°C to +60°C Type n Nonincendive Ex II 3 GD Ex nL IIC T5 Tamb = -40°C to +50 Ex nL IIC T4 Tamb = -40°C to +50 Ex nL IIC T4 Tamb = -40°C to +50 Ex nL IIC T5 Ta		

*Before using this product, be sure to read its instruction manual in advance.

Fuji Electric Co., Ltd.

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