



FKG…5

PRESSURE TRANSMITTER

OUTLINE

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

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

FEATURES

1. High accuracy up to ±0.04%

0.065% accuracy as standard, 0.04% accuracy as option.

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. HART® bilingual communications protocol

FCX-AIII series transmitter offers bilingual communications to speak both 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
- 5. 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 vapor

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.

10.5V to 32V DC for the units with

optional arrester.



Span, range and overrange limit:

Type	Span limit	[kPa] {bar}		e limit {bar}	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);

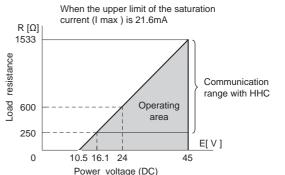
Silicone fill sensor: See Fig. 1

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

Conversion factors to different units;

1 MPa=10³ kPa=10bar=10.19716kgf/cm²= 145.0377psi $1kPa=10mbar=101.9716mmH_2O = 4.01463inH_2O$

Load limitations: see figure below



Note) The loed resistance varies with the

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

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.

Damping:

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":

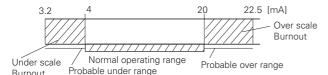
Output signal is hold as the value just before failure happens.

"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°C for fluorinated oil fill sensor

Storage: -40 to +90°C

Humidity limit: 0 to 100% RH

Communication: With HHC(1) (Model FXW), following items

can be remotely displayed or configured.

Note: HHC's version must be higher than

7.0 (or FXW \(\sum \sum 1 - \sum 4 \), for FCX-

A**Ⅲ**.

Local configurator with LCD display (option):

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

Items		nunication 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 repeatability)

Max span below 10000kPa model:

For spans greater than 1/10 of URL:

 $\pm 0.065\%$ of span or

±0.04% of span (15th digit: H, T)

For spans below 1/10 of URL:

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

Max span 50000kPa model:

For spans greater than 1/10 of URL: $\pm 0.1\%$ of span For spans below 1/10 of URL:

 $\pm \left(0.05 + 0.05 \frac{0.1 \times URL}{Span}\right)\%$ 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°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:

G1/2, 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:

Material code (7th digit in "Code symbols")	Process cover	Diaphragm	Wetted sensor body	Vent/drain
V	316 stainless	316L stain-	316 stainless	316 stainless
	steel	less steel	steel	steel
W	316 stainless	Hastelloy-C	316 stainless	316 stainless
	steel		steel	steel
J	316 stainless	316L stain-	316 stainless	316 stainless
	steel	less steel	steel	steel
		+Au coating		
Н	316 stainless	Hastelloy-C	Hastelloy-C	316 stainless
	steel	,	lining	steel
M	316 stainless	Monel	Monel lining	316 stainless
	steel			steel
Т	316 stainless	Tantalum	Tantalum	316 stainless
	steel		lining	steel

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, as specified.

Bolts and nuts: Cr-Mo alloy (standard), 316 stainless steel (660 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

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

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.

Vacuum service: Special silicone oil and filling procedure

are applied. See Fig.1.

Optional tag plate:

An extra stainless steel tag with customer tag data is wired to the transmitter.

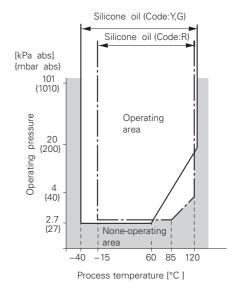


Fig. 1 Relation between process temperature and operating pressure

3

CODE SYMBOLS

						1 2 3 4	5 6 7	8	9	10 11 12 13 14 15	← Diait
igit				Note		0	5 -			of co	
4	<connections></connections>					П	П				
	Process	Oval flange	Conduit	Case type							
	connection	screw	connection			_		1	1 1		
	Rc1/4	7/16-20UNF	G1/2	T type		5			1 1		
	1/4-18NPT	7/16-20UNF	1/2-14NPT	T type		6					
	1/4-18NPT	M10 (or M12)(*1)	Pg13.5	T type	Note 1	7		1			
	1/4-18NPT	M10 (or M12)(*1)	M20×1.5	T type	Note 1	8		1			
	1/4-18NPT	⁷ /16-20UNF	Pg13.5	T type		9	ļ	ļ	ļ-4		
	Rc1/4	7/16-20UNF	G1/2	L type		S		1			
	1/4-18NPT	⁷ /16-20UNF	1/2-14NPT	L type		T		1			
	1/4-18NPT	M10 (or M12)(*1)	Pg13.5	L type	Note 1	V			1 1		
	1/4-18NPT	M10 (or M12)(*1)	M20×1.5	L type	Note 1	W					
	1/4-18NPT	7/16-20UNF	Pg13.5	L type		X	Ц.	i .	1 1		
, 7	<span and="" mat<="" td=""><td></td><td></td><td></td><td>_ </td><td></td><td></td><td></td><td>1 1</td><td></td><td></td>				_				1 1		
	Span limit	Process cover	Diaphragm	Wetted cell body	Note 2				1 1		
	[kPa]{bar}(*2)				_				1 1		
	1.3130	316 stainless steel	316L stainless ste				1V		1 1		
	{0.0131.3}	316 stainless steel	Hastelloy-C	SUS316			1W		1 1		
		316 stainless steel	316L stainless ste	el 316 stainless steel			1J		1 1		
		ļ	+Au coating					ļ	ļ		
		316 stainless steel	Hastelloy-C	Hastelloy-C lining			1H		H		
		316 stainless steel	Monel	Monel lining			1M		H		
		316 stainless steel	Tantalum	Tantalum lining	_		1T	ļ	ļ. į		
	5500	316 stainless steel	316L stainless ste				2V				
	{0.055}	316 stainless steel	Hastelloy-C	SUS316			2W		1 1		
		316 stainless steel	316L stainless ste	el 316 stainless steel			2J		1 1		
			+Au coating					l	1		
		316 stainless steel	Hastelloy-C	Hastelloy-C lining			2H		1 1		
		316 stainless steel	Monel	Monel lining			2M		1 1		
		316 stainless steel	Tantalum	Tantalum lining			2T	l			
	303000	316 stainless steel	316L stainless ste				3V		1 1		
	{0.330}	316 stainless steel	Hastelloy-C	SUS316			3W		1 1		
		316 stainless steel	316L stainless ste	el 316 stainless steel			3J		1 1		
			+Au coating					ļ	ļ;		
		316 stainless steel	Hastelloy-C	Hastelloy-C lining			3H		1 1		
		316 stainless steel	Monel	Monel lining			3M		1 1		
		316 stainless steel	Tantalum	Tantalum lining			3T	ļ			
	10010000	316 stainless steel	316L stainless ste				4V		1 1		
	{1100}	316 stainless steel	Hastelloy-C	SUS316			4VV		1 1		
		316 stainless steel	316L stainless ste	el 316 stainless steel			4J		1 1		
			+Au coating					ļ			
		316 stainless steel	Hastelloy-C	Hastelloy-C lining			4H		1 1		
		316 stainless steel	Monel	Monel lining			4M		1 1		
		316 stainless steel	Tantalum	Tantalum lining			4T	ļ			
	50050000	316 stainless steel	316L stainless ste				5V				
	{5500}	SCS14	Hastelloy-C	SUS316			5W		1 1		
		316 stainless steel	316L stainless ste	el 316 stainless steel			5J		1 1		
			+Au coating		_				H		
	<indicator a<="" and="" td=""><td>arrester></td><td></td><td></td><td></td><td></td><td></td><td></td><td>П</td><td></td><td></td></indicator>	arrester>							П		
	Indicator			Arrester							
	None			None					A		
	Analog, 0 to 100	0% linear scale		None					В		
	Analog, custom			None					D		
	None			Yes				1	Ē		
	Analog, 0 to 100	0% linear scale		Yes					F		
	Analog, custom			Yes					H		
	Digital, 0 to 100			None				1	忙		
	Digital, custom			None					P		
	, ,			Yes							
	Digital, 0 to 100% linear scale Digital, custom scale			Yes					S		
								1	1		
		Digital, 0 to 100% linear scale							1.1		
	Digital, 0 to 100		(Local configurator unit with LCD display)						1 1		
	Digital, 0 to 100 (Local configura	ator unit with LCD dis	play)	None					2		
	Digital, 0 to 100 (Local configura Digital, custom	ator unit with LCD dis scale	. ,						2		
	Digital, 0 to 100 (Local configura Digital, custom (Local configura	ator unit with LCD dis scale ator unit with LCD dis	. ,	None							
	Digital, 0 to 100 (Local configura Digital, custom (Local configura Digital, 0 to 100	ator unit with LCD dis scale ator unit with LCD dis % linear scale	play)	None					4		
	Digital, 0 to 100 (Local configura Digital, custom (Local configura Digital, 0 to 100	ator unit with LCD dis scale ator unit with LCD dis 1% linear scale ator unit with LCD dis	play)								

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.

TOKYO KEISO CO., LTD. TG-L991-1E

			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 - Digit No.
Digit	Description	Note	F K G 0 5 - of code
10	<approvals for="" hazardous="" locations=""></approvals>		
	None (for ordinary locations)		A
	TIIS, Flameproof (Cable gland seal) (*3)	Note 3	
	TIIS, Intrinsic safety		G G
	FM, Flameproof (or explosionproof) (*4)	Note 4	
	FM, Intrinsic safety and nonincentive		H ; ; ; ;
	FM Combined of flameproof and intrinsic safety (*4)	Note 4	V
	ATEX Flameproof (*5)	Note 5	[x[]]
	ATEX Intrinsic safety		K
	ATEX Type n		P
	ATEX Combined of flameproof and intrinsic safety (*5)	Note 5	M : ; ; ;
	IECEx Scheme, Flameproof (*5)	Note 5	R
	IECEx Scheme, Intrinsic safety		T
	CSA, Flameproof (or explosionproof) (*4)	Note 4	E
	CSA, Intrinsic safety and nonincentive		J
11	<vent and="" bracket="" drain="" mounting=""></vent>		
	Vent/drain Mounting bracket		
	Standard None		A
	Standard Yes, 304L stainless steel		
	Standard Yes, 316L stainless steel		
	Side None		
	Side Yes, 304L stainless steel		
	Side Yes, 316L stainless steel		
12	<options></options>		
	Extra SS tag plate Stainless steel elec. housing		
	None None	Note 6	Y
	Yes None		B ; ; ;
	None (*6) Yes (*7)	Note 7	
	Yes (*7)	Note 7	E ; ; ;
13	<special and="" applications="" fill="" fluid=""></special>		
	Treatment Fill fluid		
	Standard Silicone oil		
	Standard Fluorinated oil		w ; ;
	Degreasing Silicone oil		[G]
	Oxygen service Fluorinated oil (7th digit code "V", "W", "J" only)		A
	Chlorine service Fluorinated oil (7th digit code "H", "T")		
	Vacuum service Silicone oil for vacuum use		
14	<gasket> <bolt nut=""> (*8, 9)</bolt></gasket>	Note 8,9	1.1
	Teflon Cr-Mo alloy hexagon socket head cap screw/carbon steel nut (M10)		c
	Teflon 316 stainless steel bolt/nut (M10)		G
	Teflon Cr-Mo alloy hexagon bolt/nut (M12)		H
	Teflon 660 stainless steel bolt/nut (M10)		J
	Teflon 660 stainless steel bolt/nut (M12)		
15	<pre><fixed code=""> (*10)</fixed></pre>	Note 10	
	1 /	1	1

Note 3: (*3) Available for 4th digit code "S".

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

Note 5: (*5) Available for 4th digit code "6", "8", "T", "W".

Note 6: (*6) Customer tag number can be engraved on standartd stainless steel name plate. If extra tag plate is required, select "Yes".

Note 7: (*7) Not available for 4th digit code "5" to "9", and 10th digit code "C".

Note 8: (*8) In case of tropical use, select stainless bolts and nuts.

Note 9: (*9) See the following table for possible combinations with 6th digits.

14th digits	6th digits			
14tii ulgits	FKG*01 - 04	FKG*05		
С	0	×		
G	0	×		
Н	×	0		
J	(special option)	×		
K	×	0		

Note 10: (*10) In case of hazardous location type, tagplate is made by Fuji Electric Co., Ltd.

ACCESSORIES

Hand-held communicator: Model FXW

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/Underscale

Unless otherwise specified, output hold function is supplied.

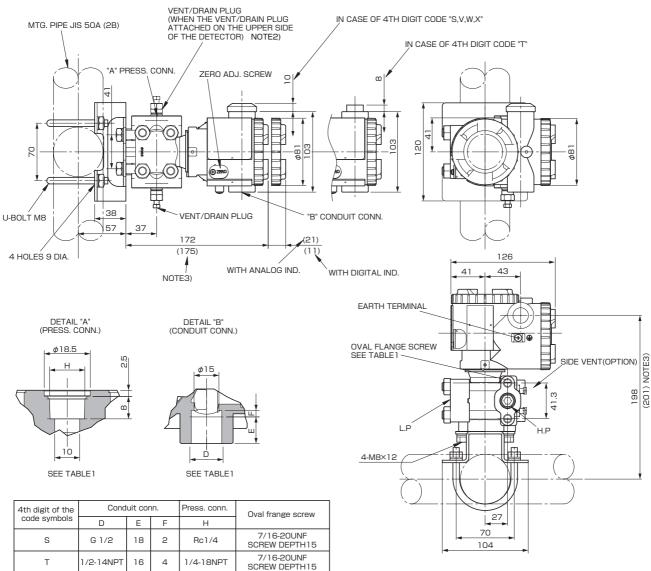
- 4. Indication method (indicated value and unit) in case of the actual scale (code D,H,P,S on 9th digit).
- 5. Tag No.(up to 14 alphanumerical characters), if required.

5

TG-L991-1E TOKYO KEISO CO., LTD.

OUTLINE DIAGRAM (Unit:mm)

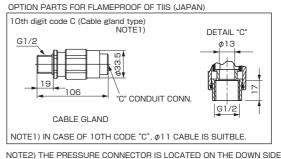
AMP. case: L type



SCREW DEPTH15 MIO V Pg13.5 10.5 4.5 1/4-18NPT SCREW DEPTH15 M10 W M20×1.5 16 4 1/4-18NPT SCREW DEPTH15 7/16-20UNF SCREW DEPTH15 Х Pg13.5 10.5 4.5 1/4-18NPT

TABLE 1

CONNECTION DIAGRAM <SS TAG PLATE>



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 15ST DIGIT OF THE CODE SYMBOLS: C,P).

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

6 TOKYO KEISO CO., LTD. TG-L991-1E

<AMP. case: T type>

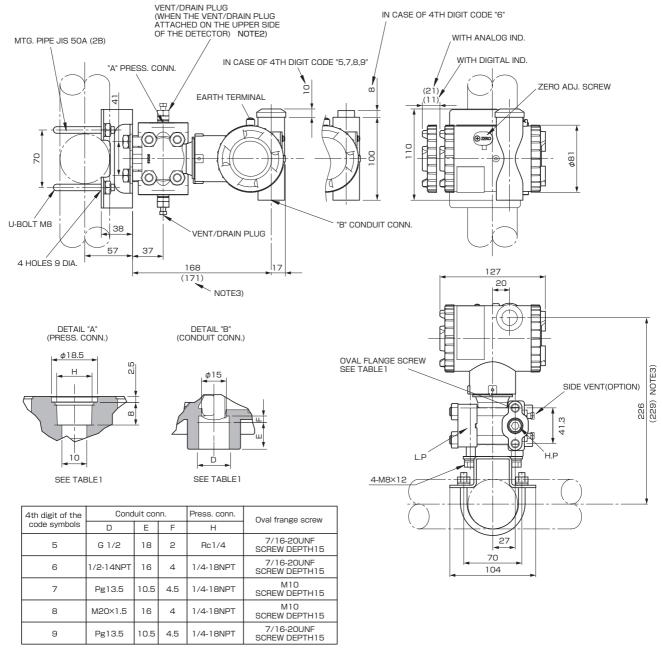


TABLE 1

CONNECTION DIAGRAM <SS TAG PLATE>

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 15ST DIGIT OF THE CODE SYMBOLS: C.P.).

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

TG-L991-1E TOKYO KEISO CO., LTD.

TABLE 2

Authorities	Intrinsic safety				
ATEX	Ex II 1 G Ex ia IICT5 Tamb = -40°C to +50°C Ex ia IICT4 Tamb = -40°C to +70°C				
	Entity Parameters: Ui=28V, Ii=94.3mA, Pi=0.66W, Ci=26nF (Without Arrester), Li=0.6mH (Without analog indicato Ci=36nF (With Arrester), Li=0.7mH (With analog indicato				
Factory Mutual	Class I II III Div.1 Groups A, B, C, D, E, F, G T4 Entity Type 4X				
	Model code Tamb 9th digit 13th digit A,B,D Y,G,R -40°C to +85°C L,P,1,2 Y,G,R -20°C to +80°C Q,S,4,5 Y,G,R -20°C to +60°C E,F,H Y,G,R -40°C to +60°C				
	- W,A,D -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 IIC T4 Tamb max = +60°C Entity Parameters: Ui=28V, Ii=94.3mA, Pi=0.66W, Ci=40.92nF, Li=0.694mH				
IECEx Scheme	Ex ia IIC T4 Tamb = -40°C to +70°C Ex ia IIC T5 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 inc Ci=36nF (With Arrester), Li=0.7mH (With analog inc				

Authorities	Flameproof				
ATEX	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				
Factory Mutual	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				
CSA	Class I Div.1 Groups C, D Class II Div.1 Groups E, F, G Class III Div.1				
	Note) "Seal Not Re	equired" enclosure	is allowed.		
TIIS	Ex do IIB+H ₂ T4 Tamb max = +60°C Maximum process temp. = +120°C				
IECEx Scheme	Ex d IICT5 IP66/67 Tamb = -40°C to +85°C Ex d IICT6 IP66/67 Tamb = -40°C to +65°C				
Authorities		Type n			
ATEX	Nonincendive Ex II 3 GD EEx nL IICT5 Tamb = -40°C to +50°C EEx nL IICT4 Tamb = -40°C to +70°C Specific Parameters: Model without arrester: Ui=42.4V, Ii=113mA, Pi=1W, Ci=25.18nF, Li=0.694mH Model with arrester: Ui=32V, Ii=113mA, Pi=1W, Ci=35.98nF, Li=0.694mH EEx nAL IICT5 Tamb = -40°C to +50°C EEx nAL IICT4 Tamb = -40°C to +70°C Specific Parameters: Model without arrester: Umax=42.4V, Imax=113mA, Pmax=1W Model with arrester:				
		er: :=113mA, Pmax=1V	V		

* Specification is subject to change without notice.

TIVE TOKYO KEISO CO., LTD.

Head Office : Shiba Toho Building, 1-7-24 Shibakoen, Minato-ku, Tokyo 105-8558

Tel: +81-3-3431-1625 (KEY); Fax: +81-3-3433-4922

e-mail: overseas.sales@tokyokeiso.co.jp; URL: https://www.tokyokeiso.co.jp

8 TOKYO KEISO CO., LTD. TG-L991-1E