



DIFFERENTIAL PRESSURE (FLOW) TRANSMITTER

Hydroseal® Diaphragm Version

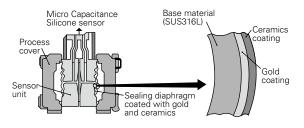
DATA SHEET

FKC...5

FEATURES

1. Unique hydroseal diaphragm

Permeation of hydrogen into the detecting unit through seal diaphragm can be suppressed thanks to the unique seal diaphragm (double coating) which employs coating of gold and ceramic.



2. High accuracy

 $\pm 0.15\%$ accuracy for all calibrated spans is the standard feature for differential pressure (flow) transmitter covering 0.32 to 130kPa (or 32mm to 13 mH₂O). Fuji's Micro-capacitance silicon sensor assures this feature.

3. Minimum environment influence

Fuji's patented "Advanced Floating Cell" design which protects the pressure sensor against changes in tempera-ture, static pressure, and overpressure substantially re-duces total measurement error in actual field applications.

Fuji/HART® bilingual communications protocol and FOUNDATION™ fieldbus and Profibus™ compatibility

FCX-A**II** series transmitter offers bilingual communications to speak both Fuji proprietary protocol and HART®. Any HART® compatible devices can communicate with FCX-A**II**. Further, by upgrading electronics FOUNDATION™ fieldbus and Profibus™ are also available.

5. Application flexibility

Various options that render the FCX-AII series suitable for almost any process applications include.

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

6. Programmable output Linearization Function

In addition to Linear and Square Root, output signal can be freely programmable.

(Up to 14 compensated points at approximation.)

7. Burnout current flexibility (Under Scale: 3.2 to 4.0mA, Over Scale: 20.0 to 21.6mA)

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



8. 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 Static pressure, span, and range limit:

Туре	Static pressure [MPa] {bar}	Span lir {ml	Range limit [KPa] {m bar}	
	(IVIPa) (Dai)	Min.	Max.	[NPa] (III Dai)
FKC□33	-0.1 to 16	3.2	32	+/- 32
	(-1 to + 160)	(32)	(320)	(+/- 320)
FKC□35	-0.1 to 16	13	130	+/- 130
	(-1 to + 160)	(130)	(1300)	(+/-1300)

Lower limit of static pressure (vacuum limit);

Silicone fill sensor: See Fig. 1

Fluorinated fill sensor: 66kPa abs (500mmHg abs)

at temperature below 60°C

 The maximum span of each sensor can be converted to different units using below factors.

1MPa =10³KPa=10bar=10.19716kgf/cm²

=145.0377psi

 $1kpa = 10mbar = 101.9716mmH_2O = 4.01463inH_2O$

Overrange limit: To maximum static pressure limit

Output signal: 4 to 20mA DC (linear or square root)

with digital signal superimposed on the

4 to 20mA signal

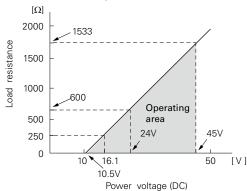
Power supply: Transmitter operates on 10.5V to 45V

DC at transmitter terminals.

10.5V to 32V DC for the units with op-

tional arrester.

Load limitations: see figure below



Note: For communication with HHC (Model: FXW), min. of 250Ω required. Hazardous locations: (Under an application) See TABLE 2 Zero/span adjustment:

> Zero and span are adjustable from the HHC(1). Zero and span are also adjustable externally from the adjustment screw (span adjustment is not available with 9th digit code "L, P, M, Q, S, N").

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:

±100% to +100% of URL

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 21.6mA from HHC(1)

"Output Underscale":

Adjustable within the range 3.2mA to 4.0mA from HHC(1)

3.2 21.6 [mA] Over scale Burnout Normal operating range Under scale Probable over range Probable under range Burnout

Loop-check output:

Transmitter can be configured to provide constant signal 3.2mA through 21.6mA

by HHC⁽¹⁾.

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 filled

transmitters)

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

Process: -40 to +120°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, consult Data

Sheet No. EDS8-47), following items can be remotely displayed or configured.

Note: HHC's version must be higher than 7.0

(or FXW $\square\square\square$ 1 $-\square$ 4), for FCX-A**II**.

Local configurator with LCD display (option):

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

items.

	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. & Soft	ware 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 made	Linear	V	V	V	V	
Output mode	Square root	V	V	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 printer option)	of FXW with	V	_	_	_	
External switch lo	ock	V	V	V	V	
Transmitter displa	эу	V	V	V	V	
Linearize		V	V	_	_	
Rerange	Rerange			V	v	
Saturate current	V	V	V	V		
Write protect	V	V	V	V		
History - Calibration histo - Ambient tempe	v v	<u>v</u>	v v	<u>v</u>		

Programmable output linearization function:

Output signal can be characterized with "14 points linear approximation func-

tion" from HHC(1).

Performance specifications for linear output

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

Accuracy rating: (including linearity, hysteresis, and repeatability)

Linear output: ±0.15%

Square root output : 50 to 100% 0.15%

20 to 50% 0.375% 10 to 20% 0.75%

Stability: ±0.15% of upper range limit (URL) for

10 years.

Temperature effect:

Effects per 28°C change between the limits of -40°C and +85°C

Output	Zero shift	Total effect				
Linear	±(0.1+0.075 URL Span)%	±(0.125+0.075 URL Span)%				
Square root	±2.5 × (0.125+0.0	75 <u>URL</u> \%/28°C				

Static pressure effect:

Zero shift (% of URL) : $\pm 0.15\%$ /10MPa {100bar}

Overrange effect:

Range code (6th digit in Code symbols)	Zero shift (% of URL)
"3"	1 % URL / 16MPa
"5"	0.6 % URL / 16MPa

Supply voltage effect:

Less than 0.005% of calibrated span

per 1V

Update period: 60 msec *)

Step response: (without electrical damping)

Range code (6th digit in Code symbols)		Time constant*)	Dead time*)			
	"3"	0.12 s	0.10 -			
"5"		0.08 s	0.12 s			

^{*)} Faster response is available as option (maximum update rate: 25 times per second).

Mounting position effect:

Zero shift, less than 0.12kPa {1.2m bar} for a 10° tilt in any plane.

No effect on span.

This error can be corrected 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

Low flow cut-off: In the case of square root output mode,

customer configurable for any point between 0 to 20% of output.

Physical specifications

Electrical connections:

G¹/₂, 1 /₂-14 NPT, Pg13.5, or M20 \times 1.5 conduit, as specified.

Process connections:

 $^{1}\!/_{4}\text{-}18$ NPT or Rc $^{1}\!/_{4}$ on 54mm centers, as specified.

Meets DIN 19213.

Process-wetted parts material:

Material code (7th digit in Code symbols)	Process cover	Diaphragm	Wetted sensor body	Vent/drain
С	C 316 stainless steel(*1)			316/316L stainless steel

Notes: (*1) SCS14A per JIS G 5121 (equivalent CF8M per ASTM A351/A351M)

(*2) The diaphragm face is coated with gold and ceram-

Remark: Sensor O-rings: Viton O-ring and teflon gasket selectable

Non-wetted parts material:

Electronics housing: Low copper diecast aluminum alloy finished with polyester coating (standard), or 316 stainless steel (SCS14A per JIS G5121), as specified.

Bolts and nuts: Cr-Mo alloy (standard), 304 stainless steel, or 630 stainless steel. Static pressure rating for code "3" with 304 stainless steel bolts is degraded to 10MPa.

Fill fluid: Silicone oil (standard) or fluorinated oil

Mounting bracket: 304 stainless steel, as specified

Environmental protection:

IEC IP67 and NEMA 6/6P

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

ing bracket, direct wall mounting, or

direct process mounting.

Mass{weight}: Transmitter approximately 3.6kg 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% accu-

racy).

An optional 5-digit LCD meter with engineering 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 electron-

ics from lightning surges.

Lightning surge immunity: 4kV (1.2 x

50µs)

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 flourinated oil.

Degreasing: Process-wetted parts are cleaned, but the fill fluid is standard silicone oil. Not

the fill fluid is standard silicone oil. Not for use on oxygen or chlorine measure-

ment.

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.

Static pressure rating for code "3" (16

MPa) is degraded to 10MPa.

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/

polyurethane double coating. Specify if environment is extremely corrosive.

CODE SYMBOLS

עטי	E SYM	BOLS					1 2 3 4	1567	8	9 10 1	11 12 13 14 15 21 🔫	Digit N
Digit			Description			Note	FKC		<u> </u>	10	- 1410 21	of code
4	<connection< td=""><td>on></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></connection<>	on>			_							
	Process	Oval flange	Conduit	Case type								
	connection Rc1/4	screw 7/16-20UNF	G1/2	T type								
	1/4-18NPT	7/16-20UNF	1/2-14NPT	Ttype			l					
	1/4-18NPT	M10	Pg 13.5	T type			7					
	1/4-18NPT	M10	M20×1.5	T type			8	1				
	1/4-18NPT	7/16-20UNF	Pg 13.5	T type			9					
	Rc ¹ /4 1/4-18NPT	7/16-20UNF 7/16-20UNF	G1/2 1/2-14NPT	L type L type			5					
	1/4-18NPT	M10	Pg 13.5	L type			l,					
	1/4-18NPT	M10	M20×1.5	L type			V					
	1/4-18NPT	7/16-20UNF	Pg 13.5	L type	_		>	(
6, 6, 7		materials>	In .		Ind.							
	Static	Span limit [kPa]	Process cover	Diaphragm	Wated cell body							
	pressure [MPa]	(mbar)	cover		cen body							
	{bar}	(mbar)										
	-0.1 to 16	3.232	316 stainles	316Lstainless	316 stainless			33C	1 1			
	(–1 to	(32320)	steel	steel (*1)	steel	Note 1				11		
	+160)	10, 100										
		13130 (1301300)				Note 1		35C				
_	المحالم ما								H	++		
9	Indicator	and arrester>		Arrester								
	None			None					,	4	1	
	Analog, 0 t	o 100% linear scale		None						3		
	_	o 100% sq. root scal	е	None (*2)		Note 2						
	Analog, cu			None						2		
	Analog, do	uble scale (Linear an	id sq. root)	None Yes]		
		o 100% linear scale		Yes						- F		
	•	o 100% sq. root scal	е	Yes (*2)		Note 2				3		
	-	stom scale		Yes						4		
		uble scale (Linear an	ıd sq. root)	Yes				ļ		<		
		100% linear scale		None								
	Digital, cus			None						И		
	-	100% square root 100% linear scale		None Yes						ב ויי		
	Digital, cus			Yes						S		
	-	100% square root		Yes						N :		
	Digital, 0 to	100% linear scale						1		1		
		igurator unit with LC	D display)	None								
	Digital, cus		ND -1111	NI						2		
		igurator unit with LC o 100% square root s		None						3		
		igurator unit with LC		None						1		
		100% linear scale	,,						.	4		
		igurator unit with LC	D display)	Yes								
	Digital, cus									5		
		igurator unit with LC		Yes								
		o 100% square root so igurator unit with LC		Yes						6		
10		s for hazardous locat		163						Ηi	1	
10		ordinary locations)								Α		
	TIIS, Flame	proof (Conduit seal)	(*7)			Note 7				В		
		proof (Cable gland s	eal) (*7)			Note 7				С		
	TIIS, Intrins		- (\ (*0\			Note O				G D		
		roof (or explosionpro ic safety and nonince				Note 8				Н		
	'	ned of flameproof an		etv (*8)		Note 8				V		
		eproof (*9)	mamor odit	, (5)		Note 9				x		
	ATEX Intrin	•								K		
	ATEXType			_						Р	1	
	ATEX Combined of flameproof and intrinsic safety (*9)					Note 9			ļ	M R		
		IECEx Scheme, Flameproof (*9) IECEx Scheme, Intrinsic safety				Note 9				T		
		proof (or explosionpro	oof) (*10)			Note 10				Ė		
		sic safety and noning								J		
		neproof (or exprosion)				Note 8				F		
	NEPSI, Intr	insic safety (Entity)								s		
		nbined of flameproo		safety (*8)		Note 8		-		U		
11		n and mounting brack		D	nee oonnestis							
	Vent/drain Standard	Mounting bracker None	<u>.</u>	Proce Stan	ess connection						Δ .	
	Standard	Yes, SUS304		Stan						[
	Standard	Yes, SUS316		Stan							<	
	Side	None		Stan								
		V CLIC204		Stan	dard	1		1	1		F	
	Side Side	Yes, SUS304 Yes, SUS316		Stan						- 1	.	

Note 1: (*1) The diaphragm face is coated with gold and ceramic.

Note 2: (*2) In case of square root output mode, square root scale is not available.

							1 2 3 4	5 6	7 8	9 10 11	12 13	14	115	21	🗕 Digit No
Digit			Description			Note	FKC		5 -			-	-	-	of code
12	<options:< td=""><td>></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Г</td><td></td><td>П</td><td></td></options:<>	>										Г		П	
	Extra SS	tag plate	Stainless steel e	lec, housing	g Coating of cell										
	None	1	None		None	Note 3					Y				
	Yes		None		None	1					В				
	None	(*3)	None		Yes						M				
	Yes	(0,	None		Yes						N				
	None		Yes } (*11)		Yes	Note 11					P				
	Yes	J	Yes J (* II)		Yes	Note 11					Q				
13	<special< td=""><td>applications an</td><td>d fill fluid></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></special<>	applications an	d fill fluid>												
	Treatmen	<u>t</u> <u>Fill fluic</u>	<u>d</u>												
	Standard	Silicone	e oil								Y				
	Standard	Fluorina	ated oil								W		Н		
	Degreasi	ng Silicone	e oil								G		Н		
	Oxygen s	ervice Fluorina	ated oil								Α		Н		
			e oil (Not available fo	or 15th digit	code "A", "B")						N	i_	<u> </u>		
14		O-ring / Gasket:	>										H		
	Teflon (ga	asket)										В			
	<bolt nut<="" td=""><td>> (*5)</td><td></td><td>V</td><td>ent Drain plug type</td><td>Note 5</td><td></td><td></td><td></td><td></td><td></td><td></td><td>П</td><td></td><td></td></bolt>	> (*5)		V	ent Drain plug type	Note 5							П		
	Cr-Mo alloy	y hexagon socket l	head cap screw/carbon	steel nut S	tandard								A		
15	Cr-Mo allo	oy hexagon bol	lt/nut	S	tandard								В		
	NACE bo	lt/nut (ASTM A1	193 B7M/A194 2HM)) S	tandard	Note 4							C		
	NACE bol	It/nut (ASTM A3	320 L7M/A194 2HM)	(*4) S	tandard								D		
	304 stainl	less steel bolt/3	304 stainless steel nu	ıt (tandard								E		
	316 stainl	less steel bolt/3	16 stainless steel nu	ıt∫ S	tandard								U		
21	<other or<="" td=""><td>otions> (*6)</td><td></td><td></td><td></td><td>Note 6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></other>	otions> (*6)				Note 6									
	Instructio	n manual unatt	tached											L	
	Opposite	Vent/Drain Plug	g Position Inst	ruction man	nual attached									С	
	Opposite	Vent/Drain Plug	g Position Inst	ruction man	nual unattached									Р	

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

Note 4: (*4) Static pressure should be -0.1 to +10MPa $\{-1$ to +100bar $\}$.

Note 5: (*5) In case of tropical use, select stainless bolts and nuts.

Note 6: (*6) If other option is not necessary, 21st digit code is blank.

In case of 21st digit code is blank, instruction manual attached.

Note 7: (*7) Available for 4th digit code "5", "S".

Note 8: (*8) Not available for 4th digit code "8", "W".

Note 9: (*9) Available for 4th digit code "6", "8", "T", "W".

Note 10: (*10) Available for 4th digit code "6", "T"

Note 11: (*11) Not available for 10th digit code "B", "C".

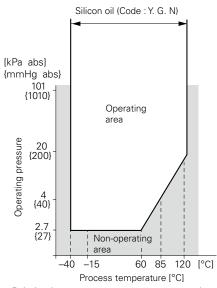


Fig. 1 Relation between process temperature and operating pressure

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.

Equalizing valves:

(Model FFN, refer to Data Sheet No.

EDS6-128)

Available in CS or in 316 stainless steel and in pressure rating 16MPa or 42MPa.

Hand-held communicator:

(Model FXW, refer to Data Sheet No.

EDS 8-47)

ORDERING INFORMATION

When ordering this instrument, specify:

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

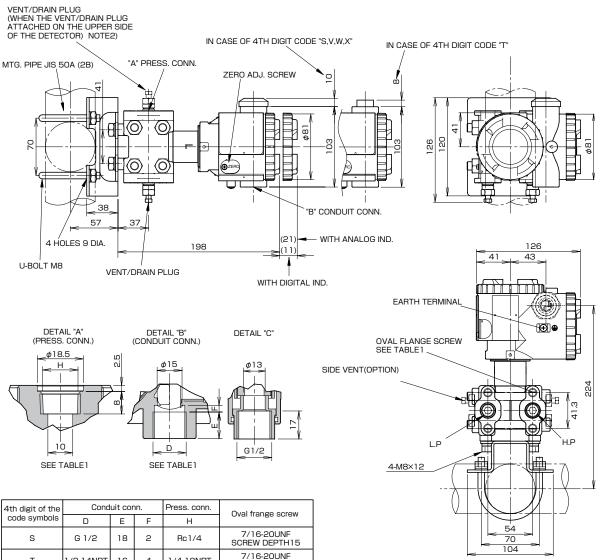
Hold / Overscale / Underscale

Unless otherwise specified, output hold function is supplied.

- Output mode (linear or square root output)
 Unless otherwise specified, output mode is linear.
- Indication method (indicated value and unit) in case of the actual scale (code D, H, P, S on 9th digit).
- Tag No. (up to 14 alphanumerical characters), if required.

OUTLINE DIAGRAM (Unit:mm)



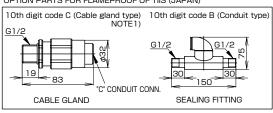


CONNECTION DIAGRAM

4th digit of the	Cond	luit cor	nn.	Press. conn.	Oval frange screw
code symbols	D	Е	F	Н	Oval flaffge Sciew
S	G 1/2	18	Ω	Rc1/4	7/16-20UNF SCREW DEPTH15
Т	1/2-14NPT	16	4	1/4-18NPT	7/16-20UNF SCREW DEPTH15
V	Pg13.5	10.5	4.5	1/4-18NPT	M10 SCREW DEPTH15
W	M20×1.5	16	4	1/4-18NPT	M10 SCREW DEPTH15
Х	Pg13.5	10.5	4.5	1/4-18NPT	7/16-20UNF SCREW DEPTH15

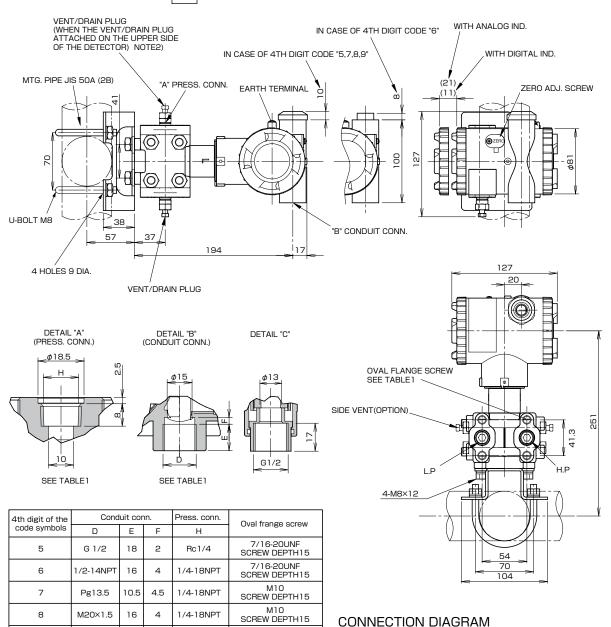
TABLE 1

OPTION PARTS FOR FLAMEPROOF OF TIIS (JAPAN)



NOTE1) IN CASE OF 10TH CODE "C", ϕ 11 CABLE IS SUITBLE. 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).

< CODE SYMBOLS : FKC $\begin{bmatrix} 5 & 8 \\ 6 & 9 \\ 7 \end{bmatrix}$ 3 \Box C5 >



4.5 1/4 TABLE 1

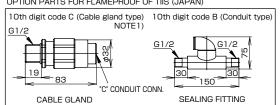
1/4-18NPT

10.5

OPTION PARTS FOR FLAMEPROOF OF TIIS (JAPAN)

Pg13.5

9



NOTE1) IN CASE OF 10TH CODE "C", ϕ 11 CABLE IS SUITBLE. 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).

7/16-20UNF SCREW DEPTH15

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 indicator), Ci=36nF (With Arrester), Li=0.7mH (With analog indicator)				
Factory Mutual (pending)	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,C,D,J Y,G,N −40°C to +85°C L,P,M,1,2,3 Y,G,N −20°C to +80°C Q,S,N,4,5,6 Y,G,N −20°C to +60°C E,F,G,H,K Y,G,N −40°C to +60°C − W,A −10°C to +60°C				
	Entity Parameters: Vmax=42.4V, Imax=113mA, Pi=1W, 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),				
TIIS	Li=0.7mH (With analog meter) Ex ia IIC T4 Tamb max = +60°C Entity Parameters: Ui=28V, li=94.3mA, Pi=0.66W, Ci=38.4nF, 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 indicator), Ci=36nF (With Arrester), Li=0.7mH (With analog indicator)				
NEPSI	Ex ia IICT4 Ex d IIB+H ₂ T6 / Ex ia IICT4				
	Model code Tamb 9th digit 13th digit -40°C to +85°C A,B,C,D,J Y,G,N -40°C to +80°C L,P,M,1,2,3 Y,G,N -20°C to +80°C Q,S,N,4,5,6 Y,G,N -20°C to +60°C E,F,G,H,K Y,G,N -40°C to +60°C - W,A -10°C to +60°C				
	Entity Parameters: Ui=42.4V, Ii=113mA, Pi=1W, Ci=35.98nF, Li=0.694mH				

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 T100C 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					
TIIS	Note) "Seal Not Required" en Ex do IIB+ H_2 T4 Tamb max = +60°C Maximum process temp. = -					
IECEx Scheme	Ex d IICT5 IP66/67 Tamb = -40°C to +85°C Ex d IICT6 IP66/67 Tamb = -40°C to +65°C					
NEPSI	Ex d IIB+H ₂ T6 Tamb = -40 °C to $+60$ °C					
Authorities	Typ Noninc					
ATEX	Ex II 3 GD EEx nL IIC T5 Tamb = -40°C to +50°C EEx nL IIC T4 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 IIC T5 Tamb = -40°C to +50°C EEX nAL IIC T4 Tamb = -40°C to +70°C Specific Parameters:					
Frankrii	Umax=42.4V, Imax=113mA, Model with arrester: Umax=32V, Imax=113mA, P					
Factory Mutual (pending)	Class I II III Div.2 Groups A, B, C, D, F, G T4 Entity Type 4X	Tamb				
CSA	Class I Div.2 Groups A, B, C, D Class II Div.2 Groups E, F, G Class III Div.2 Temp Code T5 Tamb max = +50°C Temp Code T4 Tamb max = +70°C Entity Parameters: Vmax=28V, Ci=25.18nF (Without Arrester), Ci=35.98nF (With Arrester), Li=0.694mH					

▲ Caution on Safety

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