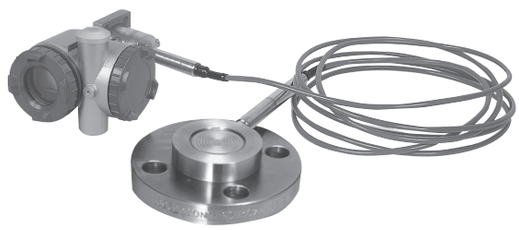
SAMLL FLANGE REMOTE SEAL TYPE PRESSURE TRANSMITTER

DATA SHEET **FKW···5/FDW···5**

The FCX -AIII small flange remote seal type pressure transmitter accurately measures pressure and converts it into an output signal of 4~20mA DC.

The transmitter utilizes a unique micromachined capacitance silicon sensor with state-of-the-art microprocessor tech nology to provide exceptional performance and functionality.It's small volume, light weight, good environment adaptability, and applicable to all fields. If using the hand held communicator(sold separately), it can be set and display via remote operation, without affecting the DC 4~20mA output signal of transmitter.FCX-AIII series transmitters with safety funtion have obtained the certificate of SIL certification by TÜV.



Features

1. It can be directly connected to 1 1/2 inch, 2 inch flange.
   The transmitter can be mounted on the 40A(1 1/2B，DN40), 50A(2B，DN50) pipe without the reducer union.
2. It can be connected to 1/2 inch, 3/4 inch pipe with connecting pipeless adapter. Also it can be connected to the following Process Connection:
   - 1/2B, 3/4B flange
   - Thread connetion Rc1/2, Rc3/4, 1/2-14NPT, 3/4-14NPT
3. Excellent environmental adaptaboility
   The advanced floating cell protects sensor from temperature and overpressure effect, and controls the total measurement error of the filed to the minimun.
4. Excellent operability and easy to use
   It has an excellent operability and easy to use in any application.
   - Small and portable pressure sensitive part(Flange specification 1 1/2 inch, Weight approx. 2.9 kg)
   - 5-digit digital indiactor
   - Stainless steel AMP case
   - Built-in RFI filter and lightning arrester
   - Various anti-corrosive materials
   - Products used for high temperature and high vacuum
   - Built-in local configurator with 3 push buttons
5. The transmitter can communicate using FUJI, HART, communication protocol, and also can use FOUNDATION FIELDBUS or PROFIBUS protocol after changing the electronic circuit.

Specifications

Functional specifications

- Measured fluid: Liquid, gas, or bapor
- Measuring range:

Model	Span limit [kPa]		Range limit [kPa]		Overrange limit [MPa]
	Min.	Max.	Lower	Upper	
FKW□□1 FDW□□1	3	130	According to the lower range limit of fill fluid (see the right table)	130	1
FKW□□2 FDW□□2	12.5	500		500	1.5
FKW□□3 FDW□□3	75	3000		3000	4.5
FKW□□4 FDW□□4	250	10000		10000	15
FKW□□5 FDW□□5	1250	50000		50000	75

Note: Recommended span should be greater than 1/40 of max. span.

- Operating pressure: Up to the upper range limit, but under the maximum operating pressure of flange.
- Process temperature, Lower range limit:

Fill fluid	13th digit Code	Process Temperature	Operating pressure
Fluorinated oil	W,A,D	-20 ~ 120°C(Note)	Above atmospheric pressure
Silicone oil	H	0 ~ 315°C	
Silicone oil	J	20 ~ 350°C	
Silicone oil	Y,G	-45 ~ 205°C(Note)	Above 2.7kPa abs See Figure1
Silicone oil	S	0 ~ 250°C	
Food grade oil(Neobee)	F	-15 ~ 120°C	Above atmospheric pressure
Low temperature oil	X	-75 ~ 150°C	

Note: When using the plastic coated capillary, the temperature range is -45 ~ 120°C.

- Remote function: Refer to table 1
  Note: HHC's version must be higher than 7.0 (or FXW□□□□1-□4).
- Output signal: (1)FKW: DC4~20mA+HART protocol
  (2)FDW: FOUNDATION Fieldbus protocol or PROFIBUS-PA
- Allowable load resistance: 0 ~ 600Ω (at DC 24V)
  (Refer to figure 2) For communication with HHC, min. of 250Ω resistor is required.
- Power supply:
  (Refer to figure 2)

General	DC10.5 ~ 45V
Intrinsic safety	DC10.5 ~ 26V
With arrestor	DC10.5 ~ 32V

FKW

- Condition of communication line: Length: up to 2km
  (0.75 ~ 1.25mm² Using twisted pair cable when instrument control cable is more than 1km.)
  Load resistance: 250 ~ 600Ω
  (DC24V, including resistance of cable)
  Load capacitance: 0.22μF or less
  Load inductance: 3.3mH or less
  sapcing with power line: 15cm or more
  (Please avoid parallel wiring.)
  Note: Line condition of intrinsic safety and explosion-proof is different, please refer to the instruction manual.
- Saturation current: Upper limit 20.0 ~ 22.5mA(variable)
  Lower limit 3.2 ~ 4.0mA(variable)
- Damping: The time constant is adjustable from 0.06 to 32 seconds.
- Adjustment function: Zero and span are adjustable by the external adjustment screw, or by local configurator with 3 push buttons, or by HHC.
- Zero elevation/suppression: Zero can be elevated or suppressed within the range of -0.1 MPa to upper range limit.
- Normal/reverse action: Selectable from HHC or LCD unit with local adjustment function.
- Burnout direction: Output hold
  Output 20.0 ~ 22.5mA (variable)
  Output 3.2 ~ 4.0mA (variable)
  (Settable in increments of 0.1mA with HHC or local configurator unit with LCD display.)
- Explosion proof: Refer to table 8
- Ambient temperature: -40 ~ +85°C
  (With arrester: -40 ~ +60°C
  Filling Fluorinated oil: -10 ~ +60°C
  Silicone oil H,S: -10 ~ +60°C
  When the length of capillary is more than 7m, the optimum tempetature: -15～+45°C
  Note: The optimum operating temperature of digital indicator is -30 ~ +80°C, response is slow below -30°C.)
- Storage temperature: -40～+90°C
- EMC applicable standard: EN61326-1: 2006 CE

Performance specifications

Silicone oil, SUS316L diaphragms

- Accuracy rating: (including linearity, hysteresis, repeatability)
  (Standard)
  For spans greater than 1/10 of URL:
  ± 0.2%
  For spans below 1/10 of URL:
  $\pm \left(0.1+0.1\frac{0.1 \times URL}{x}\%\right)$
  (Optional) (21th digit code: H)
  For spans greater than 1/10 of URL:
  ±0.1%
  For spans below 1/10 of URL:
  $\pm \left(0.05+0.05\frac{0.1 \times URL}{x}\right)\%$
- Stability: Zero shift ±0.2% of upper range limit (URL) for 10 years.
- Ambient temperature effect: Changed per 28°C in the range of -40°C ~ +85°C.
  Zero shift: ±0.5% /28°C
  (x ≥ 1/6.5URL)
  Zero shift: $\pm \left(0.5\frac{URL}{6.5x}\right)$%/28°C
  (x < 1/6.5URL)
  Total shift: ±0.75% /28°C
  (x ≥ 1/6.5URL)
  Total shift: $\pm \left(0.25+0.5\frac{URL}{6.5x}\right)$%/28°C
  (x < 1/6.5URL)
  In the formual: x: SPAN
  URL: Upper range limit
  Note: (1) It's the output change when remote flange and transmitter body at the same height and temperature.
  (2) When there is temperature difference between remote flange, capillary and transmitter body, the error will increase.
- Overrange effect: Zero shift ±0.2% of URL for 1.5×URL
- Supply voltage effect: ± 0.005% /1V(DC 16.1 ~ 45V)
- Insulation strength: 500VAC, 50/60Hz, 1 min, between circuit and earth.
- Insulation resistance: More than 100MΩ at 500V DC, between circuit and earth.
- Update rate: 60ms
- Response time: Time constant: 0.3s
  (Capillary length: 1.5m, at 23°C)
  Dead time: approx. 0.12s
  The response time is long when the capillary length is moren than 6m.
  The response time increased about 0.5s per 1.5m extending.

Structure and material

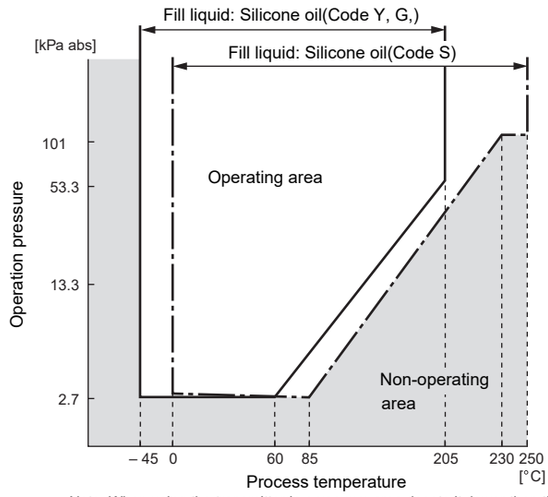
- Flange materials: SUS304、SUS316 or carbon steel
- Detecting unit materials:

Material code	Seal diaphragm	Other wetted parts
V, A, B, C, D	SUS316L	SUS316
E, N, Q, S	SUS316L	SUS304
W	Hastelloy-C	SUS316
J, 5, 6, 7, 8	SUS316L Gold-plated	SUS316
H, F, G, K, L	Hastelloy-C	Hastelloy-C
M	Monel	Monel
T, 1, 2, 3, 4	Tantalum	Tantalum

- Amp case and case cover materials:
  Aluminium die casting + Polyester coating (case color: silvery, case cover color: blue) or stainless steel(SCS14)
- Structure of case: Immersion protected type JIS C 0920 (Equivalent to IEC IP67, NEMA 6/6P)
- Outline dimension: According to the outline drawing.
- Weight: approx. 5~13kg
- Conduit connection: G1/2, 1/2-14NPT, M20× 1.5, Pg13.5 (Refer to the model code table for details.)
- External terminal: M3.5 Screw
- Preocess connection:
  JIS standard
  (Please refer to the model code for dteails.)
  10K,20K,30K, 63K - 40,50A
  10K,20K,30K - 15,20A
  (with adapter)
  ANSI/JPI standard
  150LB, 300LB, 600LB – 1 1/2B,2B
  150LB, 300LB – 1/2B, 3/4B
  (with adapter)
  GB/T/HG standard
  PN10, PN20, PN40, PN50,
  – DN40, DN50
  Thread connection (with adapter)
  Rc1/2, Rc3/4, 1/2-14NPT, 3/4-14NPT
- Diaphragm Extension length: 0, 50, 100, 150, 200mm (according to the specified)
- Mounting method: Mounting on 50A(2B) pipe with U-bolt, detecting part mounting with flange, flange clamping method (sheet type), thread connection(with adapter).
- Direction of AMP unit: Amp unit can be turned clockwise or counterclockwise by 90°or 180°, relative to the direction of detecting unit.
- Length of capillary: Max 15m
  (When the length is more than 7m and silicone oil is “H,J”, the ambient temperatureis is below +45°C.)
- Wrapping material of capillary: Plastic coated or stainless steel hose

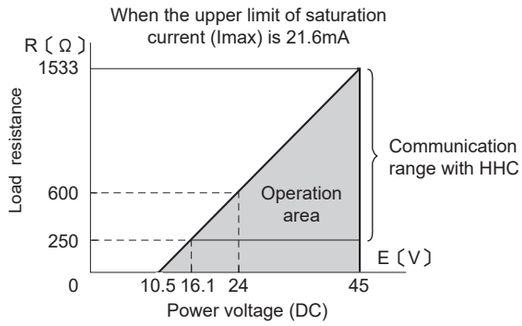
Optional specifications

- Analog indicator: Built in amplifer unit
  Class 2.5, moving-coil, movement 90°, 0 ~ 100% evenly divided scale or actual scale
- Digital indicator: Built in amplifer unit, 5 digit LCD and unit dispaly,0 ~ 100% scale display or actual scale display. Optimum operating temperature range: -30 ~ +80°C,
- Digital indicator: DIsplaying or setting the items of table 1 (with 3 push buttons) via 3 push buttons of digital indicator.
- Arrester: Built in amplifer unit
  Lightning performance: 4kV(1.2× 50μs)
- Degreasing treatment for oxygen: Filling fluorinated oil, degreasing and cleaning for wetted parts, available only for 7th digit code (material) "V,W,A,B,C,D,E,N,Q,S".
- Chlorine measurement: Filling fluorinated oil, available only for 7th digit code (material) "H,T".
- Anti-corrosive coating of detecting unit: Epoxy and polyurethane double coating
- Stainless steel tag plate: The plate can be engraved up to 14 characters (lettters and numbers)



Note: When using the transmitter in a vacuum area, locate it lower than the flange.

Figure 1 Relation between process temperature and operating pressure



〔Note〕The load resistance varies according to the upper limit of saturation current.

$$R〔\Omega〕 = \frac{E〔V〕 - 10.5}{(Imax〔mA〕 + 0.9) \times 10^{-3}}$$

Figure 2 Operation area of power voltage and load resistance

The product conforms to the requoirments of European EMC directive "Electromagnetic Compatibility Directive2004/108/EC". The detail content is recorded in the techiacal construction file nmber TN5A0704. The applicable standards are as follows:

Emission list:
EN 61326-1 : 2006 Class A (Industrial location)

Frequency range	Limits	Reference standard
30 ~ 230MHz	40dB(μV/m) quasi peak, measured at 10m distance	EN55011:1998 +A1:1999 +A2:2002 (Group1 Class A)
230 ~ 1000MHz	47dB(μV/m) quasi peak, measured at 10m distance	

Immunity requirements:
EN 61326-1 : 2006 Table2 (Industrial location)

Phenomenon	Test value	Basic standard	P.C.
Electrostatic discharge	2/4kV (Contact) 2/4/8kV (Air)	IEC 61000-4-2:1995 +A1:1998+A2:2001	B
Electromagnetic field	10V/m(80 ~ 1000MHz) 3V/m(1.4 ~ 2.0GHz) 1V/m(2.0 ~ 2.7GHz) 80%AM(1kHz)	IEC 61000-4-3:2002 +A1:2002	A
Rated power frequency magnetic field	30 A/m 50/60 Hz	IEC 61000-4-8:1993 +A1:2001	A
Burst	2kV	IEC 61000-4-4:2004	B
Surge	1.2/50μs(Voltage) 8.0/20μs(Current) 0.5/1kV line to line 0.5/1/2kV line to ground	IEC 61000-4-5:1995 +A1:2001	B
Conducted RF	0.15 ~ 80MHz 3V 80%AM(1kHz)	IEC 61000-4-6:1996 +A1:2001	A

Definition of performance criteria:
A: During testing, normal performance within the specification limits.
B: During testing, temporary degradation, or less of function or performance which is self-recovering.

Table1 Remote function

No.	Items	HHC (Model:FXW)Note1)		Local configurator (With 3 push buttons)	
		Display	Set	Dispaly	Set
1	Tag No.	○	○	○	○
2	Type	○	○	○	○
3	Serial No. & Software Version	○	—	○	—
4	Engineering unit	○	○	○	○
5	Range Limit	○	—	○	—
6	Measuring range	○	○	○	○
7	Damping	○	○	○	○
8	Output mode	○	—	○	—
9	Burnout direction	○	○	○	○
A	Zero/span calibration	○	○	○	○
B	Calibration of output circuit	—	○	—	○
C	Measured data	○	—	○	—
D	Self-diagnosis	○	—	○	—
E	Printer function	○	—	—	—
F	Lock of adj. function	○	○	○	○
G	Indication of digital indicator	○	○	○	○
H	Linzearize	○	○	—	—
I	Rerange	○	○	○	○
J	Saturation current Write	○	○	○	○
K	protect	○	○	○	○
L	History -Calibration history -Temperature history	○ ○	○ —	○ ○	○ —

Nore1) The version of HHC must be higher than 7.0 when it supports FCX-AIII series transmitter(or FXW□□□□1–□4).
It can upgrade the version by changing ROM, please consult our company's windows or agency shop nearby for deatils.

Scope of delivery

Instrument body, pipe mounting bracket
(according to type selection)

Related products

・Hand held communicator (Model: FXW):
Hand held, built-in battery, setting, display
For the details, please refer to data sheet (CSDS8-47).

Ordering information

1. Model code
2. Span
3. Please select the direction of output (Notuse/OVER/UNDER) when the transmitter is fault (Burnout). If unspecified, it is Notuse.
4. If the scale of indicator is selected to actual scale (9th code: D、H、P、S), please select the items of display (digit, scale, unit , etc).
5. Please select the tag plate according to need.(up to 14 digit, consist of lettters and numbers).

Model code

Digit	Discription	Note	1 2 3 4 5 6 7 8	9 10 11 12 13	14 15 16 17 18 19 20	21 22 ← Digit No.
	Small flange remote seal type pressure transmitter DC4~20mA+HART FOUNDATION Fieldbus and PROFIBUS		F W F K W 5 F D W 5	-	-	-
4	<AMP case>					
	<Conduit conn.> <Case type>					
	G1/2 T type		5			
	1/2-14NPT T type		6			
	Pg 13.5 T type		7			
	M20× 1.5 T type		8			
	G1/2 L type		S			
	1/2-14NPT L type		T			
	Pg 13.5 L type		V			
	M20× 1.5 L type		W			
5	<Flange materials> <Flange standards>					
	SUS304 JIS 10K 40A		0			
	SUS304 JIS 10K 50A		1			
	SUS304 JIS 20K 40A		2			
	SUS304 JIS 20K 50A		3			
	SUS304 JIS 30K 40A		4			
	SUS304 JIS 30K 50A		5			
	SUS304 JIS 63K 40A		6			
	SUS304 JIS 63K 50A		7			
	SUS304 ANSI/JPI 150LB 1 1/2B		A			
	SUS304 ANSI/JPI 150LB 2B		B			
	SUS304 ANSI/JPI 300LB 1 1/2B		C			
	SUS304 ANSI/JPI 300LB 2B		D			
	SUS304 ANSI/JPI 600LB 1 1/2B		E			
	SUS304 ANSI/JPI 600LB 2B		F			
	Carbon steel JIS 10K 40A		G			
	Carbon steel JIS 10K 50A		H			
	Carbon steel JIS 20K 40A		J			
	Carbon steel JIS 20K 50A		K			
	Carbon steel JIS 30K 40A		L			
	Carbon steel JIS 30K 50A		M			
	Carbon steel JIS 63K 40A		N			
	Carbon steel JIS 63K 50A		P			
	Carbon steel ANSI/JPI 150LB 1 1/2B		Q			
	Carbon steel ANSI/JPI 150LB 2B		R			
	Carbon steel ANSI/JPI 300LB 1 1/2B		S			
	Carbon steel ANSI/JPI 300LB 2B		T			
	Carbon steel ANSI/JPI 600LB 1 1/2B		U			
	Carbon steel ANSI/JPI 600LB 2B		V			
	None(sheet type)JIS40A, ANSI/JPI 1 1/2B, GB/T/HG DN40		W			
	None(sheet type)JIS50A, ANSI/JPI 2B, GB/T/HG DN50		X			
	With connecting pipeless adapter	Note1	Y			
	ANSI standard SUS316 flange	Note22	8			
	Chinese flange	Note17	9			
	High pressure flange(RTJ)	Note20	I			
	Other flanges	Note11	Z			
6	<Span limit [kPa] >					
	3 … 130		1			
	12.5 … 500		2			
	75 … 3000		3			
	250 …10000		4			
	1250…50000		5			
7	<Diaphragm material> <Other wetted parts> <Extension length [mm]>					
	SUS316L SUS316 0		V			
	SUS316L SUS316 0	Note13	X			
	SUS316L SUS316 50	Note2	A			
	SUS316L SUS316 100	Note2	B			
	SUS316L SUS316 150	Note2	C			
	SUS316L SUS316 200	Note2	D			
	SUS316L SUS304 50	Note2	E			
	SUS316L SUS304 100	Note2	N			
	SUS316L SUS304 150	Note2	Q			
	SUS316L SUS304 200	Note2	S			
	SUS316L Gold-plated SUS316 0		J			
	SUS316L Gold-plated SUS316 50	Note2	5			
	SUS316L Gold-plated SUS316 100	Note2	6			
	SUS316L Gold-plated SUS316 150	Note2	7			
	SUS316L Gold-plated SUS316 200	Note2	8			
	Hastelloy C SUS316 0		W			
	Hastelloy C Hastelloy C 0		H			
	Hastelloy C Hastelloy C 50	Note2	F			
	Hastelloy C Hastelloy C 100	Note2	G			
	Hastelloy C Hastelloy C 150	Note2	K			
	Hastelloy C Hastelloy C 200	Note2	L			
	Monel Monel 0		M			
	Tantalum Tantalum 0		T			
	Tantalum Tantalum 50	Note2	1			
	Tantalum Tantalum 100	Note2	2			
	Tantalum Tantalum 150	Note2	3			
	Tantalum Tantalum 200	Note2	4			
8	<Version>	Note23			5	

FKW

Digit	Discription			Note	1 2 3 4 5 6 7 8	9 10 11 12 13	14 15 16 17 18 19 20	21 22 ← Digit No.
	Small flange remote seal type pressure transmitter DC4~20mA+HART FOUNDATION Fieldbus and PROFIBUS				F W F K W 5 F D W 5	-	-	-
9	<Field indicator>	<Indicator scale>	<Arrester>					
	None		None			A		
	Analog	0 ~ 100% evenly divided scale	None			B		
	Analog	Actual scale	None			D		
	None		Yes			E		
	Analog	0 ~ 100% evenly divided scale	Yes			F		
	Analog	Actual scale	Yes			H		
	Digital	0 ~ 100% scale display	None			L		
	Digital	Actual scale display	None			P		
	Digital	0 ~ 100% scale display	Yes			Q		
	Digital	Actual scale display	Yes					
	Digital(with local adj. function)	0 ~ 100% scale display	None					
	Digital(with local adj. function)	Actual scale display	None					
	Digital(with local adj. function)	0 ~ 100% scale display	Yes					
	Digital(with local adj. function)	Actual scale display	Yes			5		
	None	Foundation Fieldbus	None	Note12		A		
	None	Foundation Fieldbus	Yes	Note12		E		
	Digital	Foundation Fieldbus	None	Note12		P		
	Digital	Foundation Fieldbus	Yes	Note12		S		
	None	Profibus	None	Note12		R		
	None	Profibus	Yes	Note12		V		
	Digital	Profibus	None	Note12		T		
	Digital	Profibus	Yes	Note12		W		
10	<Explosion proof specifications>							
	General Non explosion proof							
	TIIS (Cable gland seel) explosion proof			Note14		A		
	TIIS intrinsic safety					C		
						G		
	FM Flameproof			Note16		D		
	FM Intrinsic safety					H		
	FM Combined of flameproof and intrinsic safety			Note16		V		
	ATEX Flameproof			Note15		X		
	ATEX Intrinsic safety					K		
	ATEX Type n					P		
	ATEX Combined of flameproof and intrinsic safety			Note15		M		
	IECEx Flameproof			Note15		R		
	IECEx Intrinsic safety					T		
	CSA Flameproof			Note16		E		
	CSA Intrinsic safety					J		
	NEPSI Flameproof					F		
	NEPSI Intrinsic safety					S		
	NEPSI Combined of flameproof, intrinsic safety and dust ignition proof					U		
11	<Capillary length[m]>	<Wrapping material of capillary>						
	1.5	Plastic coated		Note7		D		
	3	Plastic coated		Note7		E		
	5	Plastic coated		Note7		L		
	6	Plastic coated		Note7		F		
	7	Plastic coated		Note7		M		
	8	Plastic coated		Note7		N		
	10	Plastic coated		Note7		P		
	12	Plastic coated		Note7		G		
	15	Plastic coated		Note7		H		
	1.5	Hose (stainless steel)				Q		
	3	Hose (stainless steel)				R		
	5	Hose (stainless steel)				S		
	6	Hose (stainless steel)				T		
	7	Hose (stainless steel)				V		
	8	Hose (stainless steel)				W		
	10	Hose (stainless steel)				X		
	12	Hose (stainless steel)				J		
	15	Hose (stainless steel)				K		
12	<Special specification>							
	Standard specification					Y		
	Stainless steel tag plate					B		
	Anti-corrosive coating of detecting unit					M		
	Anti-corrosive coating of detecting unit, SS tag plate					N		
	Anti-corrosive coating of detecting unit,SS AMP case			Note10		P		
	Anti-corrosive coating of detecting unit,SS AMP case,SS tag plate			Note10		Q		
13	<Treatment of wetted parts>	<Fill fluid>						
	Standard	Silicone oil (General)				Y		
	Standard	Fluorinated oil				W		
	Standard	Food grade oil(Neobee M20)				F		
	Degreasing	Silicone oil				G		
	Standard	Low temperature oil(Syltherm XLT, -75°C~150°C. When process temperature is -120°C~60°C, this code is "C").				X		
	Oxygen service	Fluorinated oil		Note3		A		
	Chlorine service	Fluorinated oil		Note4		D		
	Standard	Silicone oil(for high temperature: 0~315°C)		Note5		H		
	Standard	Silicone oil(for high temperature: 20~350°C)				J		
	Standard	Silicone oil(for high temperature and vacuum: 0~250°C)		Note3		S		
14	<Teflon diaphragm>							
	None						Y	
	Yes			Note6			C	

Digit	Discription		Note	1 2 3 4 5 6 7 8	9 10 11 12 13	14 15 16 17 18 19 20	21 22 ← Digit No.
	Small flange remote seal type pressure transmitter			F W			
	DC4~20mA+HART FOUNDATION Fieldbus and PROFIBUS			F K W 5			
				F D W 5			
15	<Bolt/nut materials>						
	None		Note18			Y	
	Standard(Cr-Mo hexagon socket bolt/carbon steel nut)		Note19			A	
	Cr-Mo hexagon head bolt/carbon steel nut		Note19			B	
	SUS304/SUS304		Note19			E	
	SUS316/SUS316		Note19			U	
16	<Process connection>	<Materials>					
17	JIS 10K 15A	SUS316				1 1 W	
18	JIS 10K 20A	SUS316				1 2 W	
	JIS 20K 15A	SUS316				2 1 W	
	JIS 20K 20A	SUS316				2 2 W	
	JIS 30K 15A	SUS316				3 1 W	
	JIS 30K 20A	SUS316				3 2 W	
	JIS 63K 15A	SUS316				6 1 W	
	JIS 63K 20A	SUS316				6 2 W	
	ANSI/JPI 150LB 1/2B	SUS316				1 H W	
	ANSI/JPI 150LB 3/4B	SUS316				1 T W	
	ANSI/JPI 300LB 1/2B	SUS316				2 H W	
	ANSI/JPI 300LB 3/4B	SUS316				2 T W	
	ANSI/JPI 600LB 1/2B	SUS316				4 H W	
	ANSI/JPI 600LB 3/4B	SUS316				4 T W	
	Thread connnection Rc1/2	SUS316				S R W	
	Thread connnection Rc3/4	SUS316				S 2 W	
	Thread connnection 1/2-14NPT	SUS316				S N W	
	Thread connnection 3/4-14NPT	SUS316				S T W	
	GB/T/ HG DN40 PN10/16	Carbon steel	Note17			B 4 C	
	GB/T/ HG DN40 PN10/16	SUS304	Note17			B 4 U	
	GB/T/ HG DN40 PN10/16	SUS316	Note17			B 4 W	
	GB/T/ HG DN40 PN20(class 150)	Carbon steel	Note17			C 4 C	
	GB/T/ HG DN40 PN20(class 150)	SUS304	Note17			C 4 U	
	GB/T/ HG DN40 PN20(class 150)	SUS316	Note17			C 4 W	
	GB/T/ HG DN40 PN50(class 300)	Carbon steel	Note17			D 4 C	
	GB/T/ HG DN40 PN50(class 300)	SUS304	Note17			D 4 U	
	GB/T/ HG DN40 PN50(class 300)	SUS316	Note17			D 4 W	
	GB/T/ HG DN40 PN25/40	Carbon steel	Note17			E 4 C	
	GB/T/ HG DN40 PN25/40	SUS304	Note17			E 4 U	
	GB/T/ HG DN40 PN25/40	SUS316	Note17			E 4 W	
	GB/T/ HG DN40 PN63	Carbon steel	Note17			F 4 C	
	GB/T/ HG DN40 PN63	SUS304	Note17			F 4 U	
	GB/T/ HG DN40 PN63	SUS316	Note17			F 4 W	
	GB/T/ HG DN40 PN100	Carbon steel	Note17			G 4 C	
	GB/T/ HG DN40 PN100	SUS304	Note17			G 4 U	
	GB/T/ HG DN40 PN100	SUS316	Note17			G 4 W	
	GB/T/ HG DN50 PN10/16	Carbon steel	Note17			B 5 C	
	GB/T/ HG DN50 PN10/16	SUS304	Note17			B 5 U	
	GB/T/ HG DN50 PN10/16	SUS316	Note17			B 5 W	
	GB/T/ HG DN50 PN20(class 150)	Carbon steel	Note17			C 5 C	
	GB/T/ HG DN50 PN20(class 150)	SUS304	Note17			C 5 U	
	GB/T/ HG DN50 PN20(class 150)	SUS316	Note17			C 5 W	
	GB/T/ HG DN50 PN50(class 300)	Carbon steel	Note17			D 5 C	
	GB/T/ HG DN50 PN50(class 300)	SUS304	Note17			D 5 U	
	GB/T/ HG DN50 PN50(class 300)	SUS316	Note17			D 5 W	
	GB/T/ HG DN50 PN25/40	Carbon steel	Note17			E 5 C	
	GB/T/ HG DN50 PN25/40	SUS304	Note17			E 5 U	
	GB/T/ HG DN50 PN25/40	SUS316	Note17			E 5 W	
	GB/T/ HG DN50 PN63	Carbon steel	Note17			F 5 C	
	GB/T/ HG DN50 PN63	SUS304	Note17			F 5 U	
	GB/T/ HG DN50 PN63	SUS316	Note17			F 5 W	
	GB/T/ HG DN50 PN100	Carbon steel	Note17			G 5 C	
	GB/T/ HG DN50 PN100	SUS304	Note17			G 5 U	
	GB/T/ HG DN50 PN100	SUS316	Note17			G 5 W	
	ANSI 150LB 1 1/2B	SUS316	Note22			H 4 W	
	ANSI 300LB 1 1/2B	SUS316	Note22			J 4 W	
	ANSI 600LB 1 1/2B	SUS316	Note22			K 4 W	
	ANSI 150LB 2B	SUS316	Note22			H 5 W	
	ANSI 300LB 2B	SUS316	Note22			J 5 W	
	ANSI 600LB 2B	SUS316	Note22			K 5 W	
19	<Vent/drain(for connecting pipeless apapter)>		Note21				
	Standard(Rc1/4)					A	
	Long type(Rc1/4)					N	
20	<Gasket>		Note21				
	Standard(Teflon)		Note7				1
	For high temperature(spiral gasket)		Note8				2
21	<Other>		Note9				
	None						Y
	High accuracy type						H
	Inspection report						F

FKW

Digit	Discription	Note
	Small flange remote seal type pressure transmitter DC4~20mA+HART FOUNDATION Fieldbus and PROFIBUS	
22	<Flush ring> <Companion flange> Yes None None Yes Yes Yes	Note9

	1	2	3	4	5	6	7	8		9	10	11	12	13		14	15	16	17	18	19	20		21	22	← Digit No.
	F		W						-						-								-			
	F	K	W					5	-						-								-			
	F	D	W					5	-						-								-			
22																										A B C

It's type of connecting pipeless adapter (15A, 20A, 1/2B, 3/4B for connecting) and model discription of chinese standard flange, from 16th to 20th digit code.

Note1)For using connecting pipeless adapter, please be sure to select 16th to 20th digit code. The 7th digit code only "V" can be selected.
Note2) Avaliable only for 50A, 2B, DN50 flange.
Note3) Available only for 7th digit code "V,W,A,B,C,D,E,N,Q,S".
Note4) Available only for 7th digit code "H,T".
Note5) Available only for 7th digit code "V,W,A,B,C,D,E,N,Q,S,H".
Note6) Not available for 7th digit code "A,B,C,D,E,N,Q,S", 5th digit code "Y", and 13th digit code "H,S".
The operating pressure and temperature for using teflon diaphragm:
・Atmospheric pressure~max. operating pressure of flange(not available for vacuum)
・0 ~ 120° C
Note7) Available only for 13th digit code "Y,W,G,A,D". Not available for 13th digit code "H,S".
Note8) Available only for 13th digit code "H,S".
Note9) The digit is blank when not needed.
Note10) Not available for 10th digit code "C".
Note11) 900LB or other standard flanges are available.
Note12) Please note when select Fieldbus or Profibus transmitter. (Under development)
Note13) The ultra thick diaphragm is for the requirements of wear resistance or process condition of solid particle erosion.
Note14) Available only for 4th digit code "5,S".
Note15) Available only for 4th digit code "6,8,T,W".
Note16) Available only for 4th digit code "6,T".
Note17) Please specify the flange specifications at "16th,17th,18th" digit code, when 5th digit code "9"(Chinese flange).
Note18) Without bolts for 6th digit code "2,3".
Note19) Available for 6th digit code "4".
Note20) For details please refer to 16th to 19th digit code, RTJ flange is only available for 7th digit code "V,J".
Note21) The digit is blank when 5th digit code "8,9".
Note22) Please specify the flange specifications at "16th,17th,18th" digit.
Note23) The 8th digit code can be seleced as "S", this means that it's the transmitter with safety function. SIL2 capability for single transmitter use, SIL3 capability for dual transmitter use.

<Facing type is ring joint face(RTJ)>

code, when 5th digit code "8"(ANSI standard SUS316 flange).

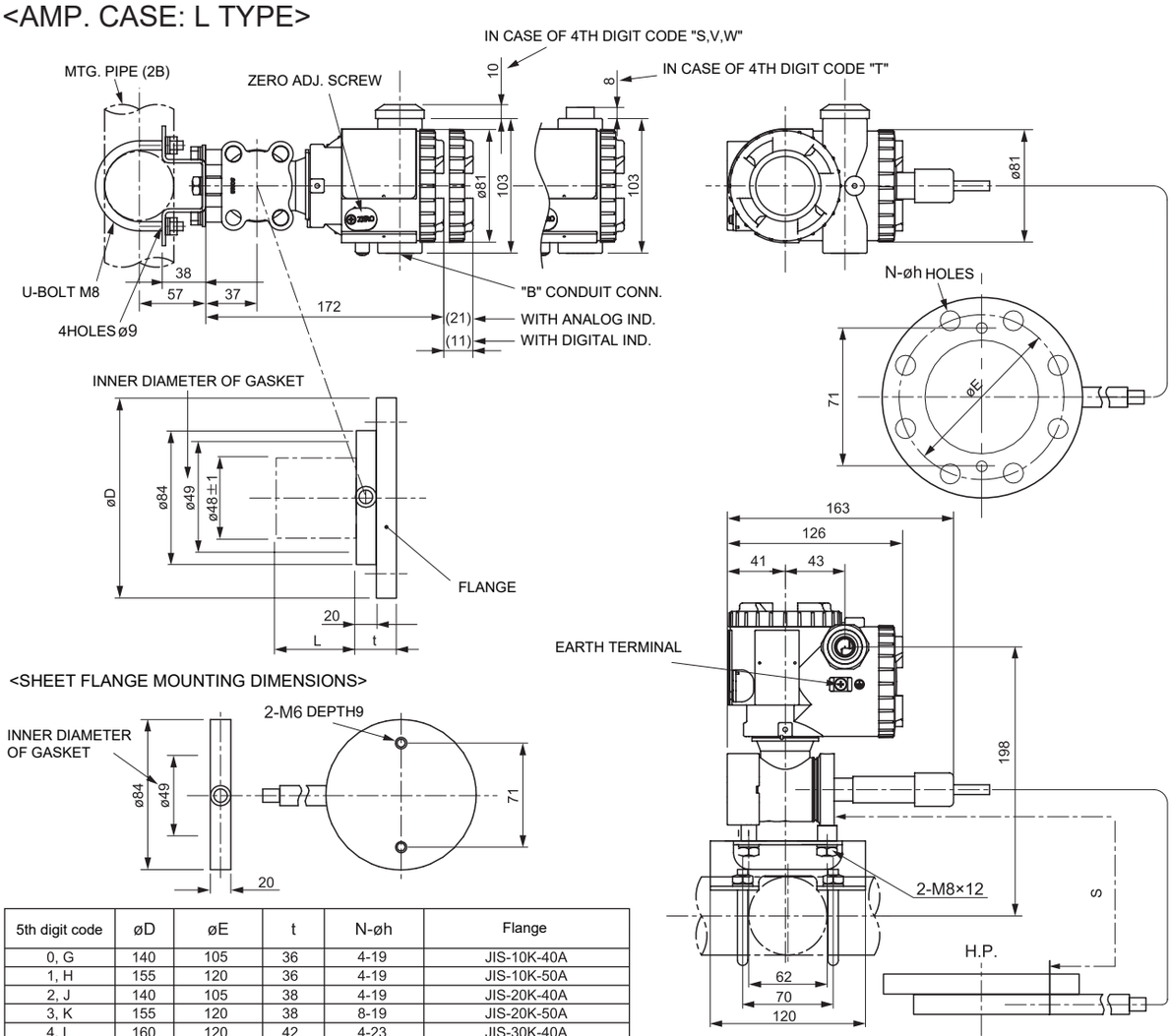
Digit	Specifications		Note
16	Mounting flange		
17	<Materials>	<Specifications>	
	304 Stainless steel	ANSI/JPI 600LB 1 1/2B	
		ANSI/JPI 600LB 2B	
		ANSI/JPI 900LB/1500LB 1 1/2B	
		ANSI/JPI 900LB/1500LB 2B	
		ANSI/JPI 2500LB 1 1/2B	
		ANSI/JPI 2500LB 2B	
	316 Stainless steel	ANSI/JPI 600LB 1 1/2B	
		ANSI/JPI 600LB 2B	
		ANSI/JPI 900LB/1500LB 1 1/2B	
		ANSI/JPI 900LB/1500LB 2B	
		ANSI/JPI 2500LB 1 1/2B	
		ANSI/JPI 2500LB 2B	
	Carbon steel	ANSI/JPI 600LB 1 1/2B	
		ANSI/JPI 600LB 2B	
		ANSI/JPI 900LB/1500LB 1 1/2B	
		ANSI/JPI 900LB/1500LB 2B	
		ANSI/JPI 2500LB 1 1/2B	
		ANSI/JPI 2500LB 2B	
	Without flange (disc type)	ANSI/JPI 600LB 1 1/2B	
		ANSI/JPI 600LB 2B	
		ANSI/JPI 900LB/1500LB 1 1/2B	
		ANSI/JPI 900LB/1500LB 2B	
		ANSI/JPI 2500LB 1 1/2B	
		ANSI/JPI 2500LB 2B	
18	<Gasket(applicable for RTJ)> None Yes		
19	<Companion flange> None Yes		
20	<Fixed code>		
21	<Fixed code>		

	1	2	3	4	5	6	7	8		9	10	11	12	13		14	15	16	17	18	19	20		21	← Digit No.
	F	K	W					5	-						-								-		
									-						-								-		
									-						-								-		
16																		6	1						
17																		6	2						
																		9	1						
																		9	2						
																		2	1						
																		2	2						
																		4	1						
																		4	2						
																		4	3						
																		4	4						
																		4	5						
																		4	6						
																		5	1						
																		5	2						
																		8	1						
																		8	2						
																		1	1						
																		1	2						
																		0	1						
																		0	2						
																		0	3						
																		0	4						
																		0	5						
																		0	6						
18																				Y A					
19																					Y A				
20																						Y			
21																									Y

Note)When ordering the transmitters with high pressure flange and the facing type is ring joint face(RTJ), the 5th digit code is "I", and should specify the 16th, 17th, 18th, 19th digit code.

OUTLINE DIAGRAM (Unit: mm)

<AMP. CASE: L TYPE>



DETAIL "B"
(CONDUIT CONN.)

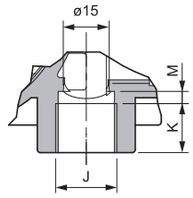
<SHEET FLANGE MOUNTING DIMENSIONS>

5th digit code	øD	øE	t	N-øh	Flange
0, G	140	105	36	4-19	JIS-10K-40A
1, H	155	120	36	4-19	JIS-10K-50A
2, J	140	105	38	4-19	JIS-20K-40A
3, K	155	120	38	8-19	JIS-20K-50A
4, L	160	120	42	4-23	JIS-30K-40A
5, M	165	130	42	8-19	JIS-30K-50A
6, N	175	130	52	4-25	JIS-63K-40A
7, P	185	145	54	8-23	JIS-63K-50A
A, Q	127	98.4	37.5	4-16	ANSI/JPI-150LB-1 1/2B
B, R	152	120.6	39.5	4-20	ANSI/JPI-150LB-2B
C, S	156	114.3	41	4-23	ANSI/JPI-300LB-1 1/2B
D, T	165	127	42.5	8-20	ANSI/JPI-300LB-2B
E, U	156	114.3	42.5	4-23	ANSI/JPI-600LB-1 1/2B
F, V	165	127	45.5	8-20	ANSI/JPI-600LB-2B

16th to 18th digit code	øD	øE	t	N-øh	Flange
B4C, B4U,B4W	150	110	38	4-18	GB/T / HG DN40 PN10/16
C4C, C4U,C4W	130	98.5	37.5	4-16	GB/T / HG DN40 PN20
E4C, E4U,E4W	150	110	38	4-18	GB/T / HG DN40 PN25/40
D4C, D4U,D4W	155	114.5	41	4-22	GB/T / HG DN40 PN50
F4C, F4U,F4W	170	125	46	4-22	GB/T / HG DN40 PN63
G4C, G4U,G4W	170	125	46	4-22	GB/T / HG DN40 PN100
B5C, B5U,B5W	165	125	40	4-18	GB/T / HG DN50 PN10/16
C5C, C5U,C5W	150	120.5	39.5	4-18	GB/T / HG DN50 PN20
E5C, E5U,E5W	165	125	40	4-18	GB/T / HG DN50 PN25/40
D5C, D5U,D5W	165	127	42.5	8-18	GB/T / HG DN50 PN50
F5C, F5U,F5W	180	135	46	4-22	GB/T / HG DN50 PN63
G5C, G5U,G5W	195	145	48	4-26	GB/T / HG DN50 PN100
H4W	127	98.4	37.5	4-16	ANSI 150LB 11/2B
J4W	156	114.3	41	4-23	ANSI 300LB 11/2B
K4W	156	114.3	42.5	4-23	ANSI 600LB 11/2B
H5W	152	120.6	39.5	4-20	ANSI 150LB 2B
J5W	165	127	42.5	8-20	ANSI 300LB 2B
K5W	165	127	45.5	8-20	ANSI 600LB 2B

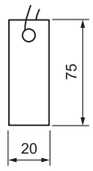
4th digit code	Conduit conn.		
	J	K	M
S	G1/2	18	2
T	1/2-14NPT	16	4
V	Pg13.5	10.5	4.5
W	M20×1.5	16	4

TABLE2

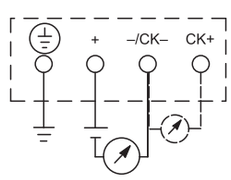


SEE TABLE2

<SS TAG PLATE(OPTIONAL)>



<CONNECTION DIAGRAM>



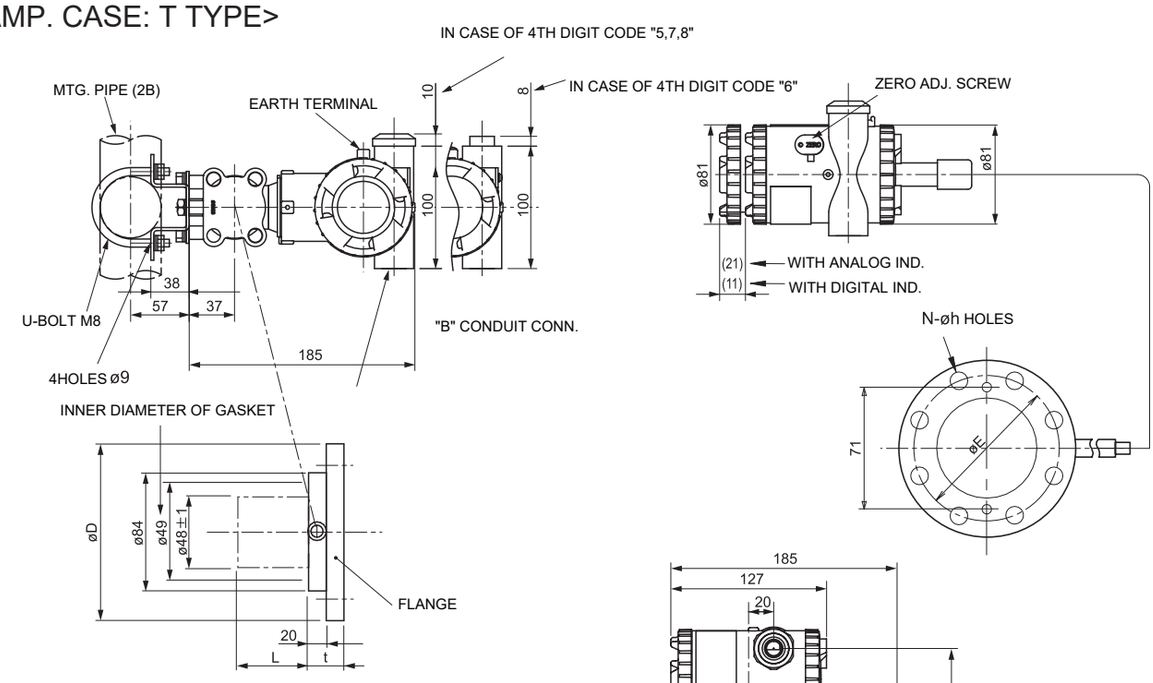
7th digit code	L	Weight(kg)
V, J, W, H, M, T	0	8.2
A, E	50	9.2
B, N	100	10.2
C, Q	150	10.7
D, S	200	11.2

11th digit code	Capillary length S (m)
D, Q	1.5
E, R	3
L, S	5
F, T	6
M, V	7
N, W	8
P, X	10
G,J	12
H,K	15

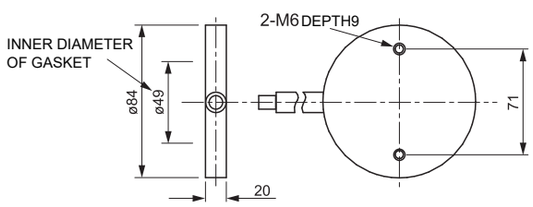
<OPTIONAL PARTS FOR FLAMEPROOF OF TIIS> (OMITTED)

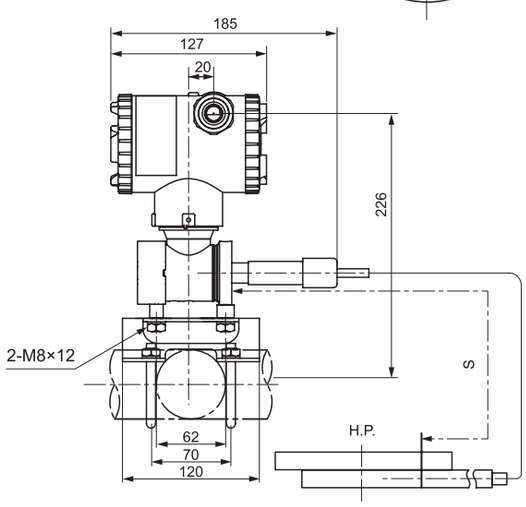
FKW

<AMP. CASE: T TYPE>

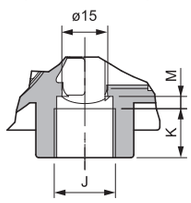


<SHEET FLANGE MOUNTING DIMENSIONS>





DETAIL "B"
(CONDUIT CONN.)



SEE TABLE3

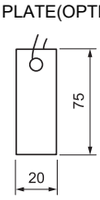
5th digit code	øD	øE	t	N-øh	Flange
0, G	140	105	36	4-19	JIS-10K-40A
1, H	155	120	36	4-19	JIS-10K-50A
2, J	140	105	38	4-19	JIS-20K-40A
3, K	155	120	38	8-19	JIS-20K-50A
4, L	160	120	42	4-23	JIS-30K-40A
5, M	165	130	42	8-19	JIS-30K-50A
6, N	175	130	52	4-25	JIS-63K-40A
7, P	185	145	54	8-23	JIS-63K-50A
A, Q	127	98.4	37.5	4-16	ANSI/JPI-150LB-1 1/2B
B, R	152	120.6	39.5	4-20	ANSI/JPI-150LB-2B
C, S	156	114.3	41	4-23	ANSI/JPI-300LB-1 1/2B
D, T	165	127	42.5	8-20	ANSI/JPI-300LB-2B
E, U	156	114.3	42.5	4-23	ANSI/JPI-600LB-1 1/2B
F, V	165	127	45.5	8-20	ANSI/JPI-600LB-2B

16th to 18th digit code	øD	øE	t	N-øh	Flange
B4C, B4U, B4W	150	110	38	4-18	GB/T / HG DN40 PN10/16
C4C, C4U, C4W	130	98.5	37.5	4-16	GB/T / HG DN40 PN20
E4C, E4U, E4W	150	110	38	4-18	GB/T / HG DN40 PN25/40
D4C, D4U, D4W	155	114.5	41	4-22	GB/T / HG DN40 PN50
F4C, F4U, F4W	170	125	46	4-22	GB/T / HG DN40 PN63
G4C, G4U, G4W	170	125	46	4-22	GB/T / HG DN40 PN100
B5C, B5U, B5W	165	125	40	4-18	GB/T / HG DN50 PN10/16
C5C, C5U, C5W	150	120.5	39.5	4-18	GB/T / HG DN50 PN20
E5C, E5U, E5W	165	125	40	4-18	GB/T / HG DN50 PN25/40
D5C, D5U, D5W	165	127	42.5	8-18	GB/T / HG DN50 PN50
F5C, F5U, F5W	180	135	46	4-22	GB/T / HG DN50 PN63
G5C, G5U, G5W	195	145	48	4-26	GB/T / HG DN50 PN100
H4W	127	98.4	37.5	4-16	ANSI 150LB 11/2B
J4W	156	114.3	41	4-23	ANSI 300LB 11/2B
K4W	156	114.3	42.5	4-23	ANSI 600LB 11/2B
H5W	152	120.6	39.5	4-20	ANSI 150LB 2B
J5W	165	127	42.5	8-20	ANSI 300LB 2B
K5W	165	127	45.5	8-20	ANSI 600LB 2B

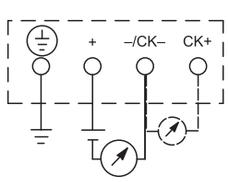
4th digit code	Conduit conn.		
	J	K	M
5	G1/2	18	2
6	1/2-14NPT	16	4
7	Pg13.5	10.5	4.5
8	M20×1.5	16	4

TABLE3

<SS TAG PLATE(OPTIONAL)>



<CONNECTION DIAGRAM>

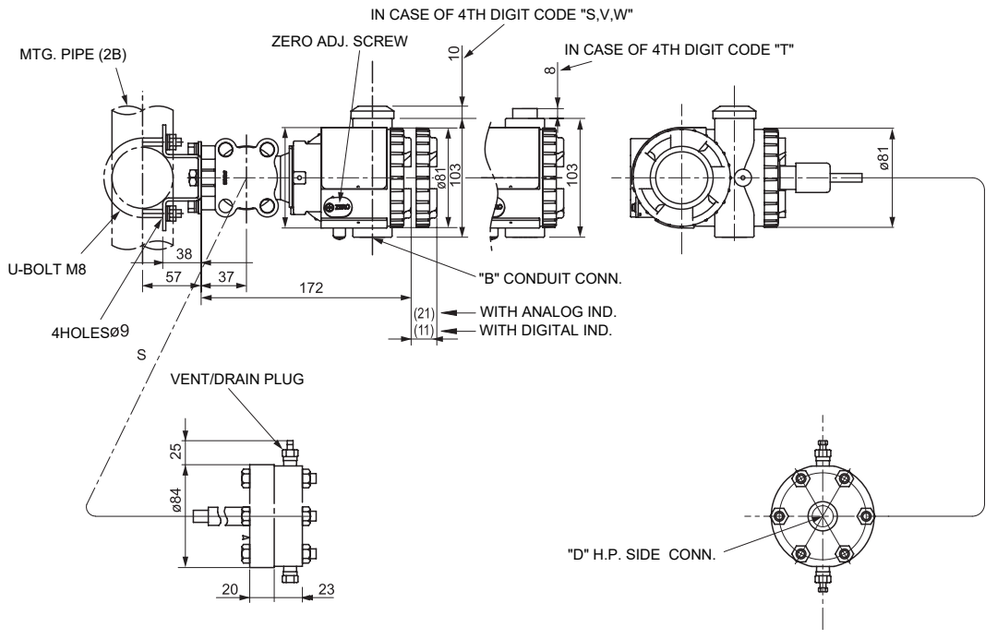


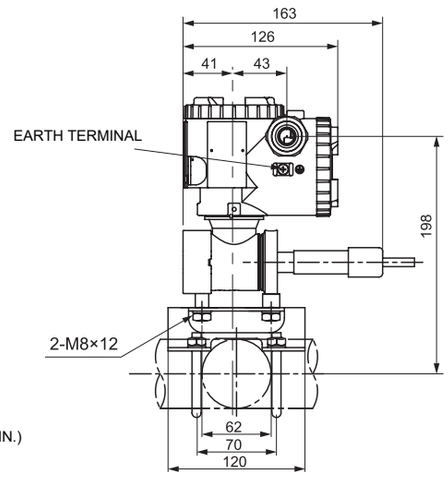
7th digit code	L	Weight(kg)
V, J, H, M, T	0	8.2
A, E	50	9.2
B, N	100	10.2
C, Q	150	10.7
D, S	200	11.2

11th digit code	S (m)
D, Q	1.5
E, R	3
L, S	5
F, T	6
M, V	7
N, W	8
P, X	10
G, J	12
H, K	15

<OPTIONAL PARTS FOR FLAMEPROOF OF TIIS> (OMITTED)

<AMP. CASE: L TYPE>WITH CONNECTING PIPELESS ADAPTER(THREAD CONNECTION TYPE)





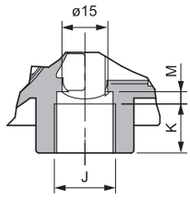
16th digit code	17th digit code	"D" preocess conn.
S	R	Rc 1/2
S	N	1/2-14NPT
S	2	Rc 3/4
S	T	3/4-14NPT

11th digit code	S (m)
D, Q	1.5
E, R	3
L, S	5
F, T	6
M, V	7
N, W	8
P, X	10
G,J	12
H,K	15

4th digit code	Conduit conn.		
	J	K	M
S	G1/2	18	2
T	1/2-14NPT	16	4
V	Pg13.5	10.5	4.5
W	M20×1.5	16	4

TABLE2

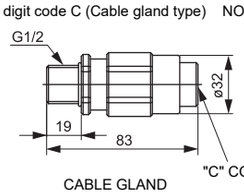
DETAIL "B"
(CONDUIT CONN.)



SEE TABLE2

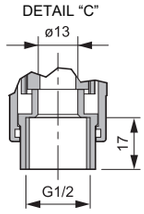
<OPTIONAL PARTS FOR FLAMEPROOF OF TIIS>

10th digit code C (Cable gland type) NOTE 1)



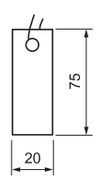
CABLE GLAND

DETAIL "C"

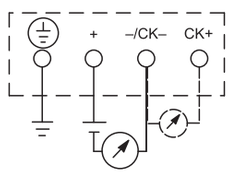


NOTE1) IN CASE OF 10TH DIGIT CODE "C", Φ11 CABLE IS SUITBLE.

<SS TAG PLATE(OPTIONAL)>

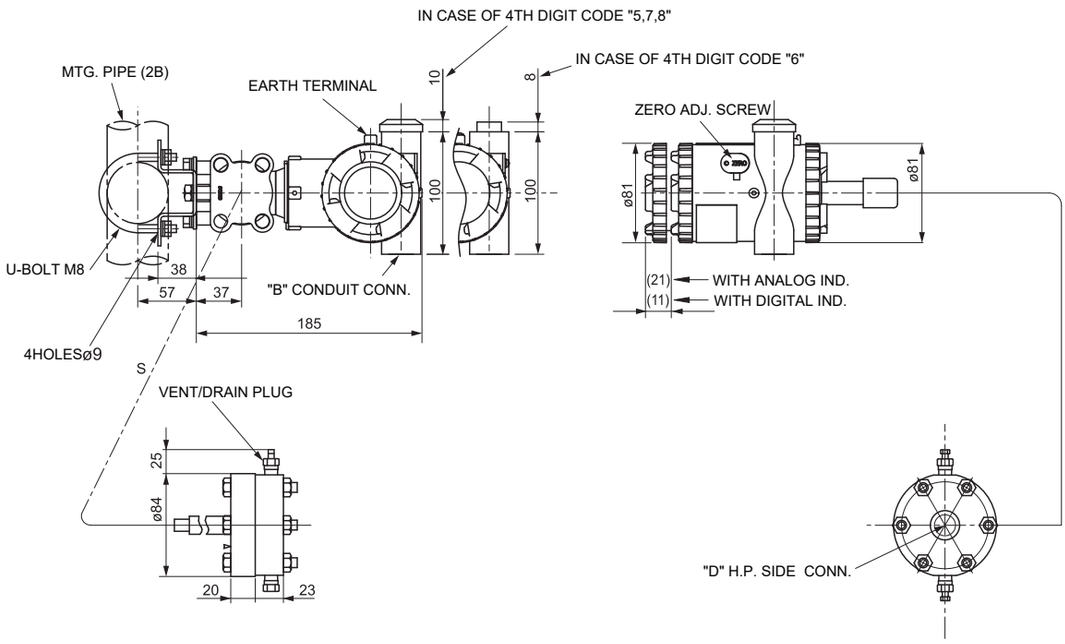


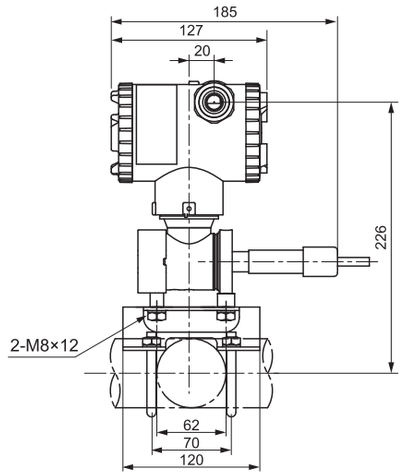
<CONNECTION DIAGRAM>



FKW

<AMP. CASE: T TYPE>WITH CONNECTING PIPELSEE ADAPTER(THREAD CONNECTION TYPE)



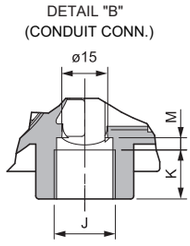


16th digit code	17th digit code	"D" preocess conn.
S	R	Rc 1/2
S	N	1/2-14NPT
S	2	Rc 3/4
S	T	3/4-14NPT

11th digit code	S (m)
D, Q	1.5
E, R	3
L, S	5
F, T	6
M, V	7
N, W	8
P, X	10
G,J	12
H,K	15

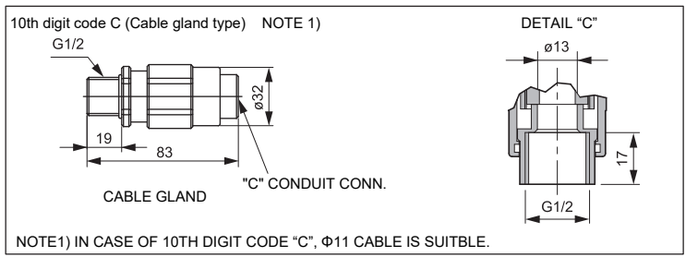
4th digit code	Conduit conn.		
	J	K	M
5	G1/2	18	2
6	1/2-14NPT	16	4
7	Pg13.5	10.5	4.5
8	M20×1.5	16	4

TABLE3

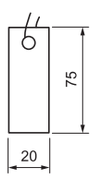


SEE TABLE3

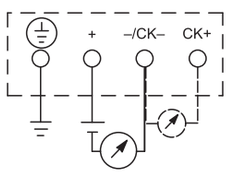
<OPTIONAL PARTS FOR FLAMEPROOF OF TIIS>



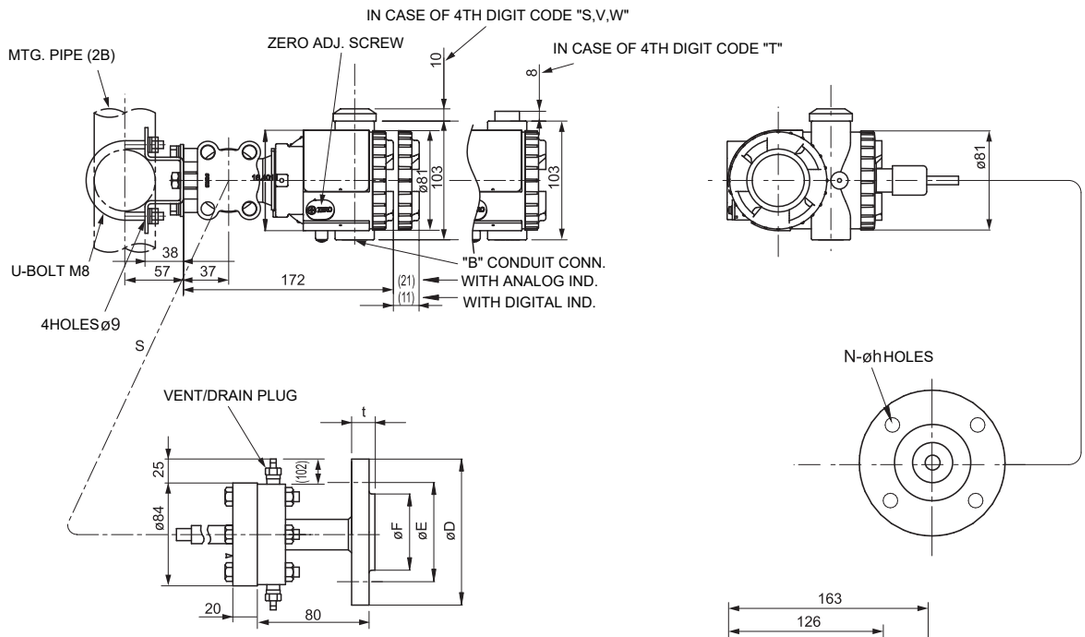
<SS TAG PLATE(OPTIONAL)>

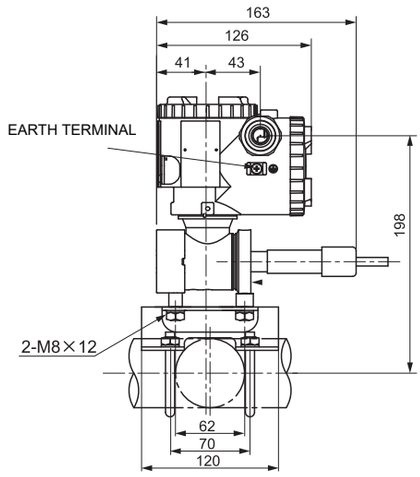


<CONNECTION DIAGRAM>



<AMP. CASE: L TYPE>WITH FLANGE



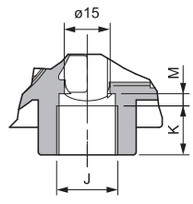


16th digit code	17th digit code	øD	øE	øF	t	N-øh	Flange
1	1	95	70	51	12	4-15	JIS-10K-15A
1	2	100	75	56	14	4-15	JIS-10K-20A
2	1	95	70	51	14	4-15	JIS-20K-15A
2	2	100	75	56	16	4-15	JIS-20K-20A
3	1	115	80	55	18	4-19	JIS-30K-15A
3	2	120	85	60	18	4-19	JIS-30K-20A
6	1	120	85	55	23	4-19	JIS-63K-15A
6	2	135	95	60	25	4-23	JIS-63K-20A
1	H	89	60.3	34.9	11.5	4-16	ANSI/JPI-150LB 1/2B
1	T	98	69.9	42.9	13	4-16	ANSI/JPI-150LB 3/4B
2	H	95	66.7	34.9	14.5	4-16	ANSI/JPI-300LB 1/2B
2	T	117	82.5	42.9	16	4-20	ANSI/JPI-300LB 3/4B
4	H	95	66.7	34.9	14.5	4-16	ANSI/JPI-600LB 1/2B
4	T	117	82.5	42.9	16	4-20	ANSI/JPI-600LB 3/4B

4th digit code	Conduit conn.		
	J	K	M
S	G1/2	18	2
T	1/2-14NPT	16	4
V	Pg13.5	10.5	4.5
W	M20×1.5	16	4

TABLE2

DETAIL "B"
(CONDUIT CONN.)

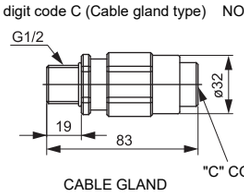


SEE TABLE2

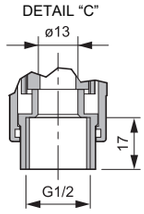
11th digit code	S (m)
D, Q	1.5
E, R	3
L, S	5
F, T	6
M, V	7
N, W	8
P, X	10
G,J	12
H,K	15

<OPTIONAL PARTS FOR FLAMEPROOF OF TIIS>

10th digit code C (Cable gland type) NOTE 1)

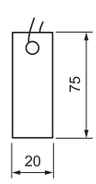


DETAIL "C"

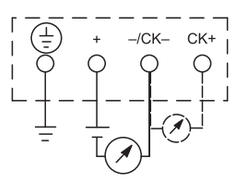


NOTE1) IN CASE OF 10TH DIGIT CODE "C", Φ11 CABLE IS SUITBLE.

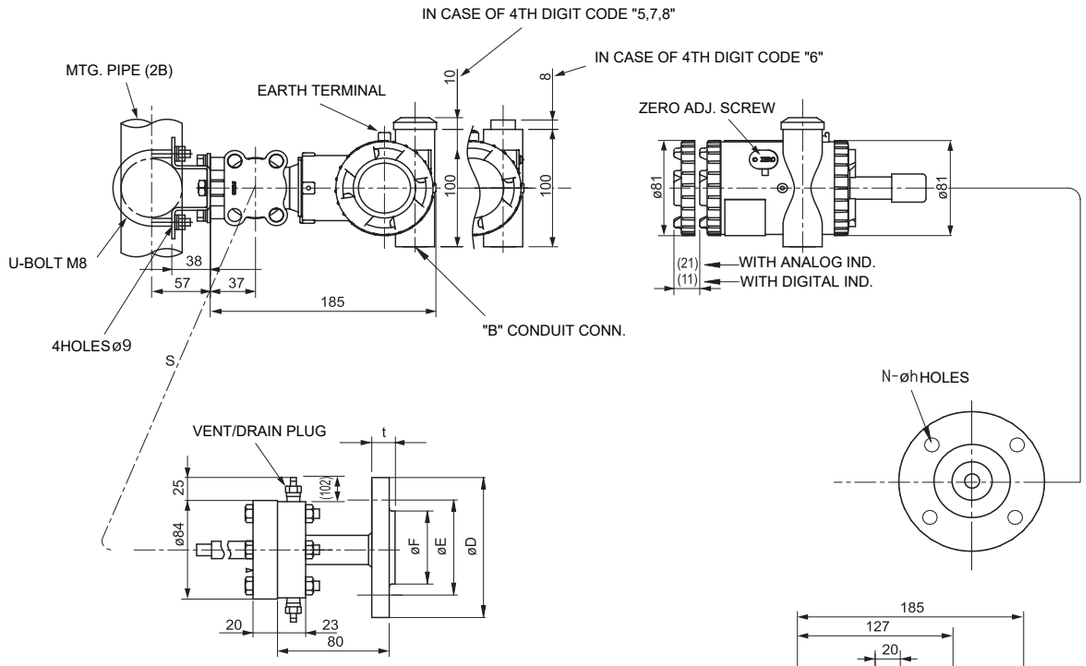
<SS TAG PLATE(OPTIONAL)>



<CONNECTION DIAGRAM>

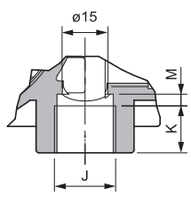


<AMP. CASE: T TYPE>WITH FLANGE



16th digit code	17th digit code	øD	øE	øF	t	N-øh	Flange
1	1	95	70	51	12	4-15	JIS-10K-15A
1	2	100	75	56	14	4-15	JIS-10K-20A
2	1	95	70	51	14	4-15	JIS-20K-15A
2	2	100	75	56	16	4-15	JIS-20K-20A
3	1	115	80	55	18	4-19	JIS-30K-15A
3	2	120	85	60	18	4-19	JIS-30K-20A
6	1	120	85	55	23	4-19	JIS-63K-15A
6	2	135	95	60	25	4-23	JIS-63K-20A
1	H	89	60.3	34.9	11.5	4-16	ANSI/JPI-150LB 1/2B
1	T	98	69.9	42.9	13	4-16	ANSI/JPI-150LB 3/4B
2	H	95	66.7	34.9	14.5	4-16	ANSI/JPI-300LB 1/2B
2	T	117	82.5	42.9	16	4-20	ANSI/JPI-300LB 3/4B
4	H	95	66.7	34.9	14.5	4-16	ANSI/JPI-600LB 1/2B
4	T	117	82.5	42.9	16	4-20	ANSI/JPI-600LB 3/4B

DETAIL "B"
(CONDUIT CONN.)



SEE TABLE3

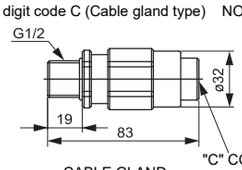
4th digit code	Conduit conn.		
	J	K	M
5	G1/2	18	2
6	1/2-14NPT	16	4
7	Pg13.5	10.5	4.5
8	M20×1.5	16	4

TABLE3

11th digit code	S (m)
D, Q	1.5
E, R	3
L, S	5
F, T	6
M, V	7
N, W	8
P, X	10
G,J	12
H,K	15

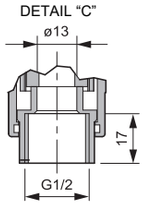
<OPTIONAL PARTS FOR FLAMEPROOF OF TIIS>

10th digit code C (Cable gland type) NOTE 1)



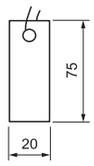
CABLE GLAND

DETAIL "C"



NOTE1) IN CASE OF 10TH DIGIT CODE "C", Φ11 CABLE IS SUITBLE.

<SS TAG PLATE(OPTIONAL)>



<CONNECTION DIAGRAM>

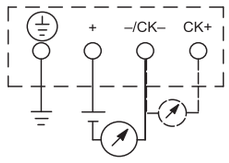


Table 4 Explosion proof

Authorities	Intrinsic safety
ATEX	Ex II 1 G Ex ia II C T5 Tamb = -40°C ~ +50°C Ex ia II C T4 Tamb = -40°C ~ +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)
FM	Class I II III DIV.1 Groups A, B, C, D, E, F, G T4 Entity Type 4X Model / Tamb 9th digit / 13th digit A,B,D / Y,G,N / -40°C ~ +85°C L,P,1,2 / Y,G,N / -20°C ~ +80°C Q,S,4,5 / Y,G,N / -20°C ~ +60°C E,F,H / Y,G,N / -40°C ~ +60°C – / W,A,D / -10°C ~ +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), Li = 0.6mH(without analog indicator) Ci = 36nF(with arrester), Li = 0.7mH(with abalig indicator)
TIIS	Ex ia IIC T4 Tamb max = +60°C Entity Parameters: Ui = 28V, Ⅰi = 94.3mA, Pi = 0.66W, Ci = 38.4nF, Li = 0.694mH
IECEx Scheme	Ex ia II C T4 Tamb = -40°C ~ +70°C Ex ia II C T5 Tamb = -40°C ~ +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 abalig indicator)
NEPSI	Ex ia IIC T4 Ex d IIB+H_2T6/Ex ia IIC T4 Model / Tamb 9th digit / 13th digit A,B,D / Y,G,N / -40°C ~ +85°C L,P,1,2 / Y,G,N / -20°C ~ +80°C Q,S,4,5 / Y,G,N / -20°C ~ +60°C E F H / Y,G,N / -40°C ~ +60°C – / W,A,D / -10°C ~ +60°C Entity Parameters: Ui = 42.4V, Ii = 113mA, Pi = 1W, Ci = 35.98nF, Li = 0.694mH

Authorities	Flameproof
ATEX	Ex II 2 GD EEx d II C T6 IP66/67 T85°C Tamb = -40°C ~ +65°C EEx d II C T5 IP66/67 T100°C Tamb = -40°C ~ +85°C
FM	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 Required” enclosure is allowed.
TIIS	Ex do IIB+H_2 T4 Tamb max = +60°C Maximum process temp. = +120°C
IECEx Scheme	Ex d II C T5 IP66/67 Tamb = -40°C ~ +85°C Ex d II C T6 IP66/67 Tamb = -40°C ~ +65°C
NEPSI	Ex d II B+H_2 T6 Tamb = -40°C ~ +60°C

Authorities	Type n Nonincendive
ATEX	Ex II3 GD EEx nL IIC T5 Tamb = -40°C ~ +50°C EEx nL IIC T4 Tamb = -40°C ~ +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 ~ +50°C EEx nAL IIC T4 Tamb = -40°C ~ +70°C Specific Parameters: Model without arrester: Umax=42.4V, Imax=113mA, Pmax=1W Model with arrester: Umax=32V, Imax=113mA, Pmax=1W
FM	Class I II III Div.2 Groups A、B、C、D、F、G T4 Entity Type 4X Model / Tamb 9th digit / 13th digit A,B,D / Y,G,N / -40°C ~ +85°C L,P,1,2 / Y,G,N / -20°C ~ +80°C Q,S,4,5 / Y,G,N / -20°C ~ +60°C E,F,H / Y,G,N / -40°C ~ +60°C – / W,A,D / -10°C ~ +60°C
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

FKW