



LEVEL TRANSMITTER

DATA SHEET FKE---4

The FCX-AII level transmitter accurately measures liquid level and transmits a proportional 4 to 20mA signal. The transmitter utilizes a unique micromachined capacitance silicon sensor with state-of-the-art microprocessor technology to provide exceptional performance and functionality.

FEATURES

1. High accuracy

0.2% accuracy for all calibrated spans is a standard feature for all models covering 0.32kPa{3.2mbar} range to 500kPa{5bar} high differential pressure range. 0.1% accuracy is available as option. Fuji's micro-capacitance silicon sensor assures this accuracy for all elevated or suppressed calibration ranges without additional adjustment

2. Minimum environmental influence

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

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

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

Further, by upgrading electronics FOUNDATIONTM fieldbus and ProfibusTM are also available.

4. Application flexibility

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

- Analog indicator at either the electronics side or terminal side
- Full range of hazardous area approvals
- Built-in RFI filter and lightning arrester
- 5-digit LCD meter with engineering unit
- Stainless steel electronics housing
- Wide selection of materials
- High temperature, high vacuum service.

Programmable output Linearization Function Output signal can be freely programmable. (Up to 14 compensated points at approximation.)

Burnout current flexibility (Under Scale: 3.2 to 3.8mA, Over Scale: 20.8 to 21.6mA)

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

7. 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	Span limit l	Range limit	
	pressure	Min.	Max.	[kPa] {m bar}
FKE□□3	Up to	0.32 {3.2}	32 {320}	+/- 32 { +/- 320}
FKE□□5	flange	1.3 {13}	130 {1300}	+/- 130 { +/- 1300}
FKE□□6	J rating	5 {50}	500 {5000}	+/- 500 { +/- 5000}

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

- Lower limit of static pressure (vacuum limit);

Silicone fill sensor: See Fig.1

Fluorinated fill sensor: 66kPa abs (500mmHg abs) at temperature below $60\,^{\circ}\text{C}$.

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

 $1 MPa = 10^3 kPa = 10 bar = 10.19716 kgf/cm^2 = 145.0377 psi \\ 1 kPa = 10 mbar = 101.9716 mmH_2O = 4.01463 inH_2O$

Overrange limit: To maximum static pressure limit

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

posed on the 4 to 20mA signal

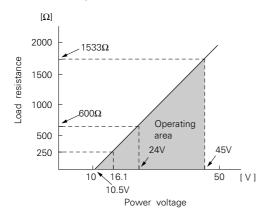
Power supply: Transmitter operates on 10.5V to 45V DC

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 $^{(1)}$ (Model: FXW), min. of 250 Ω required.

Hazardous locations:

Authorities	Flameproof	Intrinsic safety	Type n Nonincendive
ATEX	Ex II 2 GD - EExd IIC T5/T6	Ex II 1 GD - EExia IIC T4/T5	Ex II 3 GD - EExn IIC T4/T5
Factory	Class I II III	Class I II III	Class I II III
Mutual	Div. 1	Div. 1	Div. 2
	Groups B thru. G	Groups A thru. F	Groups A thru. G
CSA	Class I II III	Class I II III	Class I II III
	Div. 1	Div. 1	Div. 2
	Groups C thru. G	Groups A thru. G	Groups A thru. G
TIIS	Ex do IIB+H ₂ T4	Ex ia IIC T4 (*)	_

(*) Approval pending

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, Q, S").

Damping: Adjustable from HHC or local adjustment

unit with LCD display.

The time constant is adjustable between

0.12 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":

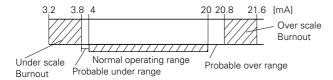
Output signal is hold as the value just before failure happens.

"Output Overscale":

Adjustable within the range 20.8mA to 21.6mA from HHC(1)

"Output Underscale":

Adjustable within the range 3.2mA to 3.8mA from HHC(1)



Loop-check output:

Transmitter can be configured to provide constant signal 3.8mA 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 fill transmitter)

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

Process:

00033.				
	Code in the 13th digit of "Code symbols"	Process temperature	Lower limit of static press	
Fluorinated oil	W, A and D	–20 to 120°C	Atmospheric	
Silicone oil	Н	–15 to 250°C	pressure	
	J	85 to 300°C		
	Y and G	-40 to 120°C	2.7kPa abs	
	S	−15 to 250°C	{20.3mmHg abs}	
	Т	85 to 300°C		
	К	–15 to 150°C	0.13kPa abs {0.98mmHg abs}	

Low pressure side contact liquid temperature on transmitter of Code H, J, S, T is 120°C or lower. Low pressure side contact liquid temperature of Code K is 85°C or lower

Storage: - 40 to + 90°C Humidity limit: 0 to 100% RH

Communication: With HHC(1) (Model FXW, consult Data

Sheet No. EDS8-47), following information can be remotely displayed or recon-

figured.

Note: HHC's version must be more than 6.0 (or FXW □□□□1-□3), for FCX-

ΔΠ

Λш.		
Items	Display	Set
Tag No.	V	V
Model No.	V	V
Serial No.	V	_
Engineering unit	٧	V
Range limit	V	_
Measuring range	V	V
Damping	V	٧
Output mode	V	_
Burnout direction	V	٧
Calibration	V	V
Output adjust	_	V
Data	V	_
Self diagnoses	V	_
Printer	_	
External switch lock	V	V
Transmitter display	V	٧
Linearize	V	V
Rerange	V	V

Programmable output linearization function:

Output signal can be characterized with "14 points linear approximation function" from HHC(1).

Performance specifications

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

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

(Standard)

For spans greater than $^{1}\!/10$ of URL: $\pm0.2\%$ of span For spans below $^{1}\!/10$ of URL:

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

(Option) (Code: 21th digit H, K)

For span greater than $^{1}\!/10$ of URL: 0.1% of span

For span below 1/10 of URL:

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

Stability: $\pm 0.2\%$ of upper range limit (URL) for 6

month.

Temperature effect:

Effects per 28°C change between the lim-

its of - 40°C and + 85°C

(Standard) Zero shift: ±0.35% of URL Total effect: ±0.5% of URL

(Option) (Code: 21th digit J, K)

Zero shift: ±0.3% of URL Total effect: ±0.4% of URL

Static pressure effect:

Zero shift: ±0.2% of URL / 1MPa Span shift: -0.2% of calibrated span / 1MPa

Overrange effect:Zero shift; $\pm 0.1\%$ of URL for flange rat-

ing pressure

Supply voltage effect:

Less than 0.005% of calibrated span per

1\/

RFI effect: Less than 0.2% of URL for the frequen-

cies of 20 to 1000MHz and field strength 30 V/m when electronics covers on. (Classification: 2-abc: 0.2% span per

SAMA PMC 33.1)

Step response: (without electrical damping)

Range code	Time constant *)	Dead time *)		
"3"	0.55 s	0.2.5		
"5" and "6"	0.3 s	0.2 s		

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

Mounting position effect:

Zero shift, less than $0.3kPa\{3m\ bar\}$ for a 10° tilt in any plane. (No extension)

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.

Turn-on time: 4 sec

Internal resistance for external field indicator:

 12Ω or less

Physical specifications

Electrical connections:

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

And 1-conduit or 2-conduit, as specified.

Process connections:

LP side: 1/4-18 NPT or Rc1/4.

HP side: ANSI, DIN, or JIS raised face flange. See OUTLINE DIAGRAM for de-

tailed dimensions.
Refer to "Code symbols"

Process-wetted parts material:

Material		LP side		HP side
code (7th digit in "Code symbols")	Process cover	Diaphragm	Wetted sensor body	Diaphragm & flange face
V	316 stainless	316L stainless	316 stainless	316L stainless
J	316 stainless	316L stainless	316 stainless	316L stainless steel +Au coating
С	316 stainless	316L stainless	316 stainless	Hastelloy-C
D	316 stainless	316L stainless	316 stainless	Monel
Е	316 stainless	316L stainless	316 stainless	Tantalum
Н	316 stainless	Hastelloy-C	Hastelloy-C lining	Hastelloy-C
M	316 stainless	Monel	Monel lining	Monel
Т	316 stainless	Tantalum	Tantalum lining	Tantalum
В	Hastelloy-C	Hastelloy-C	Hastelloy-C lining	Hastelloy-C
L	Monel lining	Monel	Monel lining	Monel
U	Tantalum	Tantalum	Tantalum lining	Hastelloy-C
Р	316 stainless	316L stainless	316 stainless	Tantalum
R	316 stainless	316L stainless	316 stainless	Zirconium

Non-wetted parts material:

Electronics housing: Low copper die-cast aluminum alloy finished with epoxy/polyurethane double coating (standard), or 316 stainless steel (SCS14 per JIS G5121), as specified.

Bolts and nuts: Cr-Mo alloy (standard) or 304 stainless steel

Fill fluid: Silicone oil (standard) or fluorinated oil

Mounting flange: 304 stainless steel or Carbon steel, as specified

Environmental protection:

IEC IP67 and NEMA 6 / 6P

Flange mounting: See drawings

Mass{weight}: Transmitter approximately 13kg without

options.

Add; 0.5kg for mounting bracket 0.8kg for indicator option

4.5kg for stainless steel housing

option

1.0kg per 50mm extension of diaphragm

Optional features

Indicator:

A plug-in analog indicator (1.5% accuracy) can be housed in the electronics compartment or in the terminal box of the housing.

An optional 5-digit LCD meter with engineering unit is also available.

Local adjustment unit with LCD display:

An optional 5-digit LCD meter with Zero/ Span adjustment function, loop-check function and damping adjustment func-

tion, is available.

Arrester: A built-in arrester protects the electron-

ics 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: Oil-free procedures as above. Includes

fluorinated oil for fill.

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 and Fig.2

Optional tag plate:

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

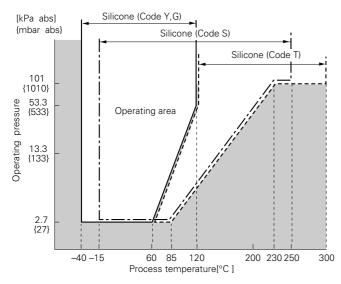


Fig. 1 Relation between process temperature and operating pressure

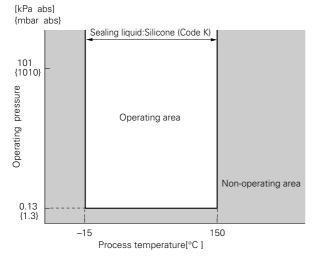


Fig. 2 Relation between process temperature and operating pressure

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

urethane double coating.

Specify if environment is extremely cor-

rosive.

ACCESSORIES

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

EDS6-10)

Converts process connection to $^{1}/_{2}$ -14 NPT or to Rc $^{1}/_{2}$; in carbon steel or in 316

stainless steel.

Hand held communicator:

(Model FXW, refer to Data Sheet No. EDS

8-47)

Z/S board: Parts No.=ZZPFCX4-A070

When Z/S board is mounted on the FCX–AII amplifier unit, external adjustment screw will be available for zero and span

adjustment.

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 (21.6mA) / Underscale (3.2mA). 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 26 alphanumerical characters), if required.

The product conforms to the requirements of the Electromagnetic compatibility Directive 94/9/EC as detailed within the technical construction file number TN513035. The applicable standards used to demonstrate compliance are:

EMI (Emission) EN61326: 1997

EMI (Immunity) EN61326: 1997 Annex A (standard for Industrial Location)

Times II (standard for industrial Eoch							
Phenomenon	Test value	Basic standard	Performance criteria				
Electrostatic discharge	4kV (Contact) 8kV (Air)	IEC61000-4-2	В				
Electromagnetic field	I 9 10\//m		А				
Rated power frequency magnetic field	30A/m 50Hz	IEC61000-4-8	А				
Burst	2kV 5kHz	IEC61000-4-4	В				
Surge	1.2μs/50μs 1kV (Line to line) 2kV (Line to ground)	ne to line) IEC61000-4-5					
Conducted RF	0.15 to 80MHz		А				

Note) Definition of performance criteria

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

CODE SYMBOLS

						T	1 2 3	4 5	6	_	9 10	11 12 13	14 15	21 -	- Digit No.
Digit 4	<connections></connections>		Descri	ption		Note	FKE		ų.	4 -	Ш		J-Ш-	Ч	of code
~	Process	Oval flange	Condui	<u> </u>											
	connection	screw	connec	tion											
	Rc ¹ /4	⁷ /16-20UNF	G ¹ /2	(×1)				Α							
	¹ /4-18NPT	⁷ /16-20UNF	¹ /2-14NI		ation with 12th			В							
	¹ /4-18NPT ¹ /4-18NPT	M10 M10	Pg13.5 M20×1.		de "C, E, P, Q" available.			C D							
	¹ /4-18NPT	7/16-20UNF	Pg13.5		avallable.			E							
	Rc1/4	⁷ /16-20UNF	G ¹ /2	(×2)				S							
	¹ /4-18NPT	⁷ /16-20UNF	¹ /2-14NI	PT (×2)				Т	- 1						
	¹ /4-18NPT	M10	Pg13.5	(×2)				٧							
		M10	M20×1.					W	- 1						
	1/4-18NPT	⁷ /16-20UNF	Pg13.5	(×2)				X	1	<u> </u>					
5	<mounting flang<="" 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><td></td><td></td></mounting>		****												
	304 stainless	Size and ra JIS 10K 80						0	-						
	steel	JIS 10K 10						1							
		JIS 30K 80						2	-						
		JIS 30K 10						3							
		ANSI/JPI 1							-						
		ANSI/JPI 1						5 6							
		ANSI/JPI 3						7	-						
		DIN PN40 I						8							
		DIN PN16 I						9 M	-						
		JIS 20K 80					[
		ANSI/JPI 6						A B C D							
	Carbon steel	JIS 10K 80						A							
		JIS 10K 10						C							
		JIS 30K 10						D							
		ANSI/JPI 1	50LB 3"			1		Ē							
		ANSI/JPI 1						F							
		ANSI/JPI 3						G H							
		ANSI/JPI 3				Note 1		H							
		DIN PN16 I				ivote i		K							
	316 stainless	JIS 10K 80						S							
	steel	ANSI/JPI 1	50LB 3B												
		ANSI/JPI 1						U							
		ANSI/JPI 3						V							
		ANSI/JPI 3 ANSI/JPI 6						X							
6	<span (*1)<="" limit="" td=""><td></td><td></td><td><u>'</u></td><td></td><td></td><td></td><td></td><td>Ť</td><td>+</td><td></td><td></td><td></td><td>-</td><td></td>			<u>'</u>					Ť	+				-	
	0.3232		_						3						
	{3.2 320}														
	1.3130								5						
	{13 1300} 5 500								6						
	{50 5000}														
7	<material></material>									1					
		LP sid			HP side										
	Process cover	Diaphragm	1	Wetted sensor	Diaphragm and										
	316 stainless st	el 316L etainle	ogg etaal	body 316 stainless stee	flange face I 316L stainless steel					,					
				316 stainless stee						á					
				316 stainless stee					ľ	5					
				316 stainless stee						E					
	316 stainless st	eel 316L stainle	ess steel	316 stainless stee					-	J					
					316L stainless steel										
					+Au coating Flange:										
					316 stainless steel										
	316 stainless ste	eel Hastellov-C	 C	Hastelloy-C lining		1				4					
	316 stainless ste			Monel lining	Monel				r	И					
	316 stainless st			Tantalum lining	Tantalum	 				Τ					
	Hastelloy-C linin		;	Hastelloy-C lining					[!	3					
	Monel lining Tantalum lining	Monel Tantalum		Monel lining Tantalum lining	Monel Tantalum					L J					
			ess steel	316 stainless stee		Note 3				J P					
				316 stainless stee		Note 2, 3				3					

Note 1: (*1) 100: 1 turn down is possible, but should be used at a span greater than 1/40 of the maximum span for better performance. Note 2: (*2) Material Code R; 6th digit code "6" is not available.

Note 3: (*3) 5th digit code "0, 2, 4, 6, 8, A, C, E, G, J" are available.

Digit	Description			Note	1 2 3 4 5 6 7 FKE	8 9 10 1	1 12 13 14	15 21 -	— Digit No. of code
9	<indicator and="" arrester=""></indicator>				[- ['''			
	Indicator	Arreste	<u>er</u>						
	None	None `	Z/S board			B			
	Analog, 0 to 100% linear scale Analog, custom scale	None None	attached.						
	None	Yes	Approval pending			E			
	Analog, 0 to 100% linear scale	Yes	for 10th digit code			F			
	Analog, custom scale	Yes	"G, H, J, K, P"			H			
	Digital, 0 to 100%	None							
	Digital, custom scale Digital, 0 to 100%	None Yes				P Q			
	Digital, custom scale	Yes				s			
	Digital, 0 to 100%		· }	1		1 1			
	(Local adjustment unit with LCD display)	None							
	Digital, custom scale					2			
	(Local adjustment unit with LCD display)	None							
	Digital, 0 to 100% square root	None	Approval pending			3			
	(Local adjustment unit with LCD display) Digital, 0 to 100%	None	for 10th digit code "D, E, G, H, J, K, P"			4			
	(Local adjustment unit with LCD display)	Yes	D, L, G, 11, 0, 10, 1						
	Digital, custom scale					5			
	(Local adjustment unit with LCD display)	Yes							
	Digital, 0 to 100% square root	.,				6			
10	(Local adjustment unit with LCD display) <approvals for="" hazardous="" locations=""></approvals>	Yes)				 		
10	None (for ordinary locations)					A			
	•	e for 4th	digit code "A", "S")			В			
	TIIS, Flameproof (Cable gland seal) (Available	e for 4th	digit code "A", "S")			c			
	FM, Flameproof (or explosionproof) (Available		•			D			
	CSA, Flameproof (or explosionproof) (Available	e for 4th	digit code "B", "T")			E			
	ATEX, Flameproof TIIS, Intrinsic safety (Approval pending)					^			
	FM, Intrinsic safety and nonincendive					H			
	CSA, Intrinsic safety and nonincendive					J			
	ATEX, Intrinsic safety					K			
	ATEX, Type n					P			
11	<diaphragm [mm]="" extension=""> Extension [mm] Applicable material code</diaphragm>								
	0 Applicable material code	<u> </u>				l,	,		
	50					,	1 1 1 1 1		
	100 (7th digit code "V" only)					E	3		
	150					c	:		
	200 J					[]		
	50 100					E			
	150 (7th digit code "H" ,"B" ,	'C" only	·)						
	200					F			
12	<options></options>								
	Extra SS tag plate Stainless steel elec	. housii							
	None None		None				B		
	Yes None None Yes		None None						
	Yes (* 4) Yes		None	Note 4			E :		
	None None		Yes	11			М		
	Yes None		Yes				N : :		
	None Yes		Yes				P		
13	Yes Yes <special and="" applications="" fill="" fluid=""></special>		Yes				0		
13	Treatment Fill fluid								
	Standard Silicone oil						Y		
	Standard Fluorinated oil						W		
	Degreasing Silicone oil			ļļ			G		
	Oxygen service Fluorinated oil (7th di Chlorine service Fluorinated oil (7th di		de "V", "J" only) H", "T", "B", "U", "C" and "E")				A D		
			"V", "C", "H", "B"]	}			<u> </u>		
	High temp. 300°C	igit code	, , , , , , ,				J		
	High temp, and vacuum (250°C)	ا:⊷المطاء	(* 5)	Note 5			s		
	nigh temp. and vacuum (300°C)	ın aıgıt	code "V"				T		
	High temp. and high vacuum Silicone oil		J				K		
14	<o-ring, and="" gasket="" membrane="" teflon=""> O-ring (Gasket Teflon membrane)</o-ring,>								
	O-ring /Gasket Viton (O-ring) Teflon membrane None								
	Teflon (gasket) None						В		
	Viton (Ö-ring) Yes \ (5th digit code "0",	, "2", "4"	', "6", "8", "A", "C", "E",	<u> </u>			c		
	Teflon (gasket) Yes \(\bigcup \text{"G", "J", "M", "R", '} \)	'S", "T",	"V", "X" and 11th				D		
	digit code "Y" are a		e. K" are not available \						

Note 4: (*4) Customer tag number can be engraved on standard stainless steel name plate. If extra tag plate is required, select "Yes" Note 5: (*5) Treatment; None

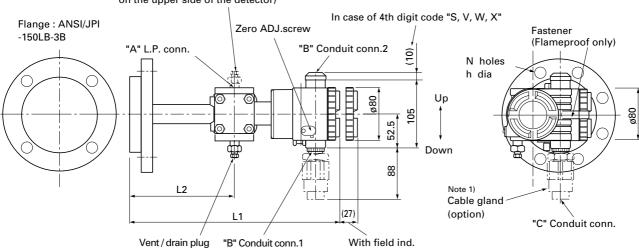
			<u>1 2 3 4 5 6 7 8</u> <u>9 10 11 12 13</u> <u>14 15</u> <u>21</u>
Digit	Description	Note	F K E 4 of code
15	<bolt nut=""> (* 6)</bolt>	Note 6	
	Cr-Mo alloy hexagon socket head cap screw/carbon steel nut		A
	Cr-Mo alloy hexagon bolt/nut		B ;
	304 stainless steel bolt /304 stainless steel nut		E ;
21	<other options=""></other>		
	High accuracy type		H
	Low temperature effect type		J
	H+J		K

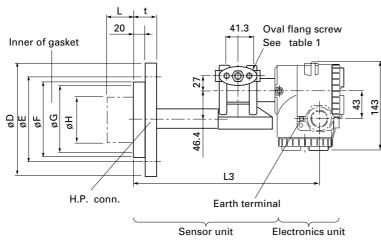
Note 6: (*6) In case of tropical use, select stainless bolts and nuts.

OUTLINE DIAGRAM (Unit:mm)

< 7digit code : Without "B", "L" and "U" >

Vent / drain plug Note 2) (When the vent /drain plug attatched on the upper side of the detector)





	Detail "A" (L.P conn.) ø18.5	Detail "B" (Conduit conn.)	Detail "C"
¥	σ ₇ σ ₇ σ ₇	ø15	ø13
	See table 1	See table 1	

11th degit code	L (mm)	Mass apprpx. (kg)	L1	L2	L3
Υ	0	9.5 ~ 13	323	150	286
A	50	10 ~ 17			
B	100	10.5 ~ 17.5	317	144	290
CG	150	11 ~ 18	317	144	230
D	200	11.5 ~ 18.5			

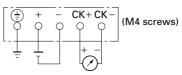
ø D	øΕ	øΕ	ø G	øΗ	t	N - ø h	(Flange)
185	150	126	100	73	38	8 - 19	JIS-10K-80A
210	175	151	103	96	38	8 - 19	JIS-10K-100A
200	160	126	100	73	4 2	8 - 23	JIS-20K-80A
210	170	126	100	73	48	8 - 23	JIS-30K-80A
240	195	151	103	96	5 2	8 - 2 5	JIS-30K-100A
191	152.5	126	100	73	4 4	4 - 2 0	ANSI/JPI-150LB-3B
229	190.5	151	103	96	4 4	8 - 20	A N S I / J P I - 1 5 0 L B - 4 B
210	168	126	100	73	49	8 - 23	ANSI/JPI-300LB-3B
254	200	151	103	96	5 2	8 - 23	ANSI/JPI-300LB-4B
210	168	126	100	73	5 2	8 - 23	ANSI/JPI-600LB-3B
200	160	126	100	73	4 4	8 - 18	DIN PN40 DN80
220	180	151	103	96	4 0	8 - 18	DIN PN16 DN100

4th digit of the	Conduit	coni	n.	Press.conn.	Oval flage screw					
code symbols	K	M	Ν	J	- Oval liage sciew					
A, S	G ¹ /2	17	8	Rc ¹ /4	7/16-20UNF Screw depth15					
B, T	¹ /2-14NPT	16	5	¹ /4-18NPT	7/16-20UNF Screw depth15					
C, V	Pg13.5	8	4.5	¹ /4-18NPT	M10 Screw depth15					
D, W	M20×1.5	16	5	¹ /4-18NPT	M10 Screw depth15					
E, X	Pg13.5	8	4.5	¹ /4-18NPT	7/16-20UNF Screw depth15					
Table 1										

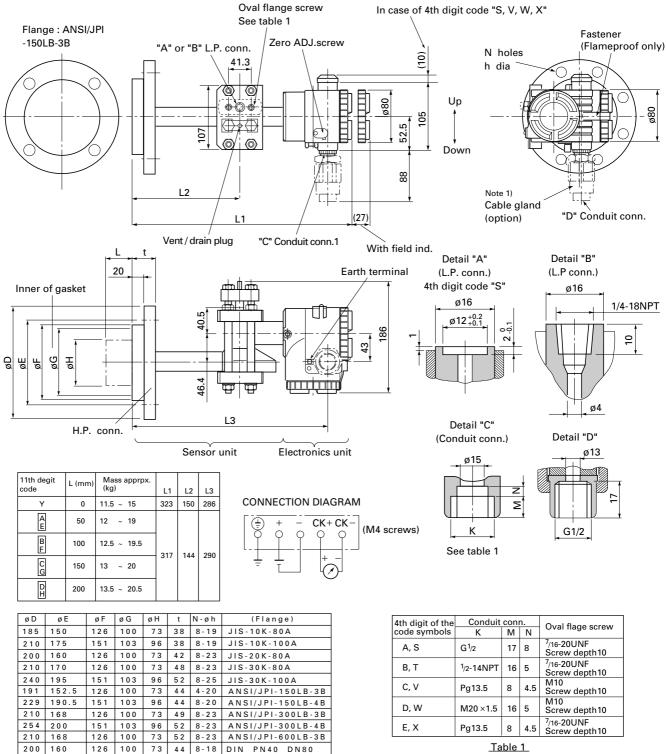
Note 1) Cable gland is suppled in case of 10th digit code "C". Ø11 cable is suitable.

Note 2) The pressure connector is located on the down side surface of the detector, when the vent / detector

CONNECTION DIAGRAM



< 7th digit code : "B", "L" or "U" >



96 Cable gland is suppled in case of 10th digit code "C". Note 1) Ø11 cable is suitable.

40 8-18 DIN PN16 DN100

151 | 103

220 180

Table 1

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