

■ DATA SHEET

The ProcessX absolute pressure transmitter accurately measures absolute pressure and transmits a proportional 4 to 20 mA 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.

0.1% accuracy is available as option.

2. MINIMUM INVENTORY AND DESIGN

Electronics unit, local indicators and electronics housing are interchangeable among all ProcessX transmitters.

3. MINIMAL ENVIRONMENTAL IMPACT

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

4. GEORGIN/HART™ BILINGUAL COMMUNICATION PROTOCOL

ProcessX series transmitter offers bilingual communications to speak both Georgin proprietary protocol and HART®.

Any HART® compatible devices can communicate with ProcessX.

5. APPLICATION FLEXIBILITY

Various options that render the ProcessX suitable for almost any process applications include :

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

6. PROGRAMMABLE OUTPUT LINEARIZATION FUNCTION

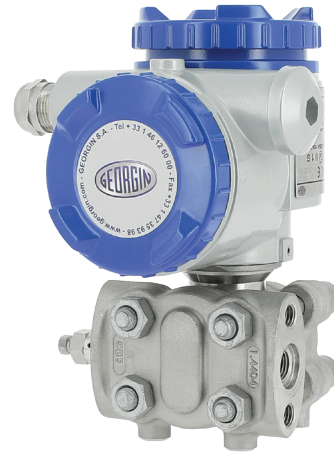
Output signal can be freely programmable. (Up to 14 compensated points at approximation).

7. BURNOUT CURRENT FLEXIBILITY (UNDER SCALE : 3.2 TO 4,0 mA / OVER SCALE : 20.0 TO 22,5 mA)

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

8. 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.



■ FUNCTIONAL SPECIFICATIONS

Type :

FKA : Smart, 4-20 mA DC + Georgin/Hart® digital signal

Service :

Liquid, gas or vapour

Span, range, and overrange limit :

Type	Span limit [kPa abs.] {bar abs.}		Range limit [kPa abs.] {bar abs.}	Overrange limit [MPa] {bar}	
	Min.	Max.			
FKA□01	1.6 {0.016}	16 {0.16}	0 to +16 {0 to +0.16}	0.5	{5}
FKA□02	1.6 {0.016}	130 {1.3}	0 to +130 {0 to +1.3}	0.5	{5}
FKA□03	5 {0.05}	500 {5}	0 to +500 {0 to +5}	1.5	{15}
FKA□04	30 {0.3}	3000 {30}	0 to +3000 {0 to +30}	9	{90}
FKA□05	100 {1}	10000 {100}	0 to +10000 {0 to +100}	15	{150}

Remark :

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

Output signal :

4 to 20 mA DC with digital signal superimposed on the analogic signal.

Power supply :

Transmitter operates on 10.5 V to 45 V DC at transmitter terminals.

10.5 V to 32 V DC the units with optional arrester.

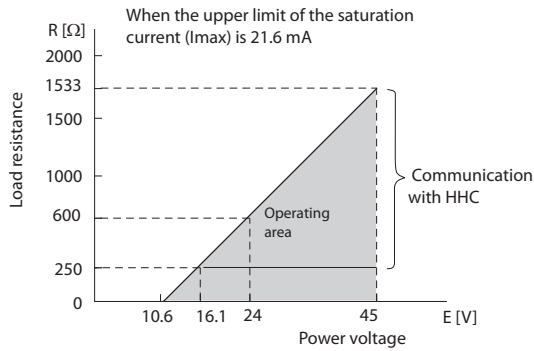


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■ **LOAD LIMITATION** : see figure below



Note) The load resistance varies with the upper limit of the saturation current [I_{max}]

$$R [\Omega] = \frac{E [V] - 10.5}{(I_{max} [mA] + 0.9) \times 10^{-3}}$$

Note : A 250 Ω load resistor is required to communicate with the FXW Portable Communicator.

■ **HAZARDOUS LOCATION** :

	digit 10	Explosion Proof	Installation areas	ATEX and IECEx parameters
ATEX	X	Attestation DEKRA 14ATEX0015X Ex d IIC T5/T6 Gb Ex tb IIIC T85°C/T100°C Db Ta= -40<+85°C) - T5/T100°C Ta= -40<+65°C) - T6/T85°C IP66/67 Ex II 2 GD : Group II (Surface) - Category 2GD The temperature of the cable can be Ta + 5 ° C	Zones 1-2 Zones 21-22	Model without surge arrester Ui≤45Vdc Pi≤1.0125W Model with surge protector Ui≤32Vdc Pi≤1.0125W
IECEX	R	Attestation IECEx CSA 16.0048X Ex d IIC T5/T6 Gb Ex tb IIIC T85°C/T100°C Db Ta= -40<+85°C) - T5/T100°C Ta= -40<+65°C) - T6/T85°C IP66/67		
	digit 10	Intrinsic safety	Installation areas	ATEX and IECEx parameters
ATEX	K	Attestation DEKRA 14ATEX0016X Ex ia IIC T4/T5 Ga Ex ia IIIC T100°C/T135°C Da Ta= -40<+70°C) - T4/T135°C Ta= -40<+50°C) - T5/T100°C IP66/67 Ex II 1 GD : Group II (Surface) - Category 1GD	Zones 0-1-2 Zones 20-21-22	Ui≤28Vdc Ii≤94.3mA Pi≤0.66W Model with / without surge arrester Ci=36nF / Ci=26nF Model with / without analogue indicator Li=0.7mH / Li=0.6mH
IECEX	H	Attestation IECEx CSA 16.0049X Ex ia IIC T4/T5 Ga Ex ia IIIC T100°C/T135°C Da Ta= -40<+70°C) - T4/T135°C Ta= -40<+50°C) - T5/T100°C IP66/67		
	digit 10	"n" Type	Installation areas	ATEX and IECEx parameters
ATEX	P	Ex nA IIC T5 Gc Ex tc IIIC T100°C Dc Ta= -40°C<+70°C) - T5/T100°C IP66/67 Ex II 3 GD : Group II (Surface) - Category 3GD	Zones 2 Zones 22	Model without surge arrester Ui≤45Vdc Pi≤1.0125W
IECEX	Q	Ex nA IIC T5 Gc Ex tc IIIC T100°C Dc Ta= -40°C<+70°C) - T5/T100°C IP66/67		

Refer to the package insert for safe use.

ZERO/SPAN ADJUSTMENT :

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

DAMPING : (Adjustable from HHC communicator or LCD digital display)

The time constant is adjustable between 0,06 to 32 seconds.

ZERO ELEVATION/SUPPRESSION :

Zero can be elevated within the specified range limit of each sensor model.
-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" :

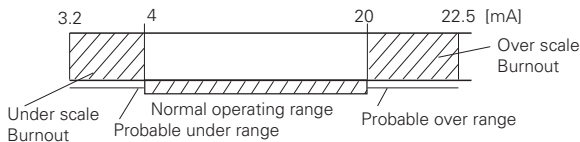
Output signal is hold as the value just before failure happens.

"Output overscale" :

Adjustable within the range 20.0 mA to 22.5 mA from HHC⁽¹⁾.

"Output underscale" :

Adjustable within the range 3.2 mA to 4.0 mA from HHC⁽¹⁾.
Output limits conforming to NAMUR NE43 by order.



LOOP-CHECK OUTPUT :

Transmitter can be configured to provide constant signal 3.2 mA through 22.5 mA by HHC⁽¹⁾.

TEMPERATURE LIMIT :

- Ambient :** - 40 to +85°C
- 20 to +80°C (for digital indicator option)
- 40 to +60°C (for arrester option)

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

Process : - 40 to +85°C (for silicone oil fill sensor)

Storage : - 40 to +90°C

HUMIDITY LIMIT :

0 à 100% RH (Relative Humidity)

COMMUNICATION :

With HHC⁽¹⁾ (model FXW, consult DS EDS8-47), following items can be remotely displayed or configured.

Note :

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Note : HHC's version soft must be higher than 7.0 (or FXW□□□□1-□4) for ProcessX for supporting these items : "Saturate current", "Write protect", and "History".

Items	Georgin protocol with FXW		Hart® Protocol		Configuration by 3 pushbuttons (LCD display)	
	Display.	Set.	Display.	Set.	Display.	Set.
Tag No.	v	v	v	v	v	v
Model No.	v	v	v	v	v	v
Serial No.& Software version	v	—	v	—	v	—
Engineering unit	v	v	v	v	v	v
Range limit	v	—	v	—	v	—
Measuring range	v	v	v	v	v	v
Damping	v	v	v	v	v	v
Output mode	Linear	v	v	v	v	v
	Square root	v	v	v	v	v
Burnout direction	v	v	v	v	v	v
Calibration	v	v	v	v	v	v
Output adjust	—	v	—	v	—	v
Data	v	—	v	—	v	—
Self diagnoses	v	—	v	—	v	—
Printer (as option)	v	—	—	—	—	—
External switch lock	v	v	v	v	v	—
Transmitter display	v	v	v	v	v	—
Linearize*	v	v	—	—	—	—
Rerange	v	v	v	v	v	v
Saturate current	v	v	v	v	v	v
Write protection	v	v	v	v	v	v
History	—	—	—	—	—	—
	—	—	—	—	—	—

(Note) (1) HHC: Hand Held Communicator

***LOCAL CONFIGURATOR WITH LCD DISPLAY (OPTION) :**

Local configurator with 3 push button and LCD display can support all items (Georgin protocol list) excepted "Linearize" function.

PROGRAMMABLE OUTPUT DE LINEARIZATION FUNCTION :

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

PERFORMANCE SPECIFICATION

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

ACCURACY RATING :

(included linearity, hysteresis & repeatability). (Standard)

For spans greater than 1/10 of URL : ±0.2% of span

For spans below 1/10 of URL :

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

(Not available for Max span 16 kPa abs, 130 kPa abs)

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

For spans below 1/10 of URL :

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

STABILITY : ±0.2% of upper range limit (URL) for 10 years.

TEMPERATURE EFFECT :

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

$$\text{Zero shift} : \pm \left(0.125 + 0.1 \frac{\text{URL}}{\text{span}} \right) \%$$



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Total effect : $\pm(0.15+0.1 \frac{URL}{span})\%$

Double the effects for material code "H" (7th digit in codes symbols).

■ **OVERANGE EFFECT :**

Zero shift :

$\pm 0.2\%$ of URL for any overrange to maximum limit

■ **SUPPLY VOLTAGE EFFECT :**

Less than 0.005% of calibrated span per 1 V.

■ **UPDATE RATE :** 60 msec

■ **INFLUENCE OF RADIO INTERFERENCES :**

< 0,2% of URL for the frequencies of 20 to 1000 MHz and field strength of 10 V/m when electronic housing covers are on (Classification : 2-abc : 0,2% of span according SAMA PMC 33.1).

■ **RESPONSE TIME :** (at 63,3% of the output without electronic damping)

Time constant : 0.08 sec (at 23°C)

Time out : 0.12 sec

Response time = time constant + dead time

■ **MOUNTING POSITION EFFECT :**

Zero shift, less than 0.1 kPa {1 mbar} for a 10° tilt in any plane. This error can be corrected by adjusting zero. No effect on span.

■ **VIBRATIONS EFFECT :**

< $\pm 0,25\%$ of span for spans greater than 1/10 of URL. Frequency 10 to 150 Hz, acceleration 39,2 m/sec².

■ **MATERIAL FATIGUE :** Please consult Georgin

■ **DIELECTRIC STRENGTH :**

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

■ **INSULATION RESISTANCE :** More than 100 MΩ at 500 V DC.

■ **INTERNAL RESISTANCE FOR EXTERNAL FIELD INDICATOR :**

12 Ω (connected to test terminals CK+ et CK-)

■ **PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC :**

According to Article 3.3

■ **PHYSICAL SPECIFICATION**

■ **ELECTRIC CONNECTIONS :**

1/2-14 NPT, Pg13.5 or M20 x 1.5

■ **PROCESS CONNECTION :**

Standard : 1/4-18 NPT as specified

Option : 1/2-14 NPT for oval flanges

Remark : the codification does not include the oval flange accessories.

■ **PROCESS-WETTED PARTS MATERIAL :**

Material code (7th digit in code symbols)	Process cover	Diaphragm	Wetted sensor body	Vent/drain
V	SS 316L	SS 316L	SS 316L	SS 316L
H	PVDF or SS 316L	Hastelloy-C	Hastelloy-C	SS 316L
J	SS 316L	SS 316L + gold coating	SS 316L	SS 316L

Remark :

Sensor gasket : Viton o-ring or PTFE square section gasket. Availability of above material design depends on ranges and static pressure.

Refer to "Code symbols".

■ **NON-WETTED PARTS MATERIAL :**

Electronics housing : Low copper die-cast aluminium alloy, finished with polyester coating (standard), or SS

316, as specified.

Bolts and nuts : Standard : Cr-Mo alloy

Options : SS 316 (L) or SS 660

Fill fluid : Silicone oil

Mounting bracket : SS 304L or SS 316L.

■ **ENVIRONMENTAL PROTECTION :**

IEC IP66/IP67 and NEMA4X

■ **MOUNTING :**

Without mounting bracket : direct mounting on manifold (optional)

With optional mounting bracket : for 50 mm (2") pipe or direct wall mounting.

■ **MASS {WEIGHT} :**

Transmitter approximately 3.5 kg without options.

Add : 0.3 kg for indicator (optional)

0.5 kg for mounting bracket

2 kg for stainless steel housing option

■ **OPTIONAL FEATURES**

■ **INDICATOR :**

A plug-in analog indicator (2.5% 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 CONFIGURATION WITH LCD DISPLAY :**

An optional 5 digits LCD meter with 3 push buttons can support items without using communication with FXW.

■ **ARRESTER :**

A built-in arrester protects the electronics from lightning surges.

Lightning surge immunity: 4 kV (1.2 x 50 μs)

■ **DEGREASING :**

Process-wetted parts are cleaned, but the fill fluid is standard silicone oil. Not for use for oxygen or chlorine measurement.

■ **NACE SPECIFICATION :**

Metallic materials for all pressure boundary parts comply with NACE MR 0175/ISO 15156.

SS 660 bolts and nuts comply with NACE MR 0175/ISO 15156.

■ **OPTIONAL TAG PLATE :**

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

■ **ACCESSORIES**

■ **OVAL FLANGES :**

Converts process connection to 1/2-14 NPT

■ **HAND HELD COMMUNICATOR FXW (HHC) :**

(Model FXW, refer to data sheet No. EDS 8-47)



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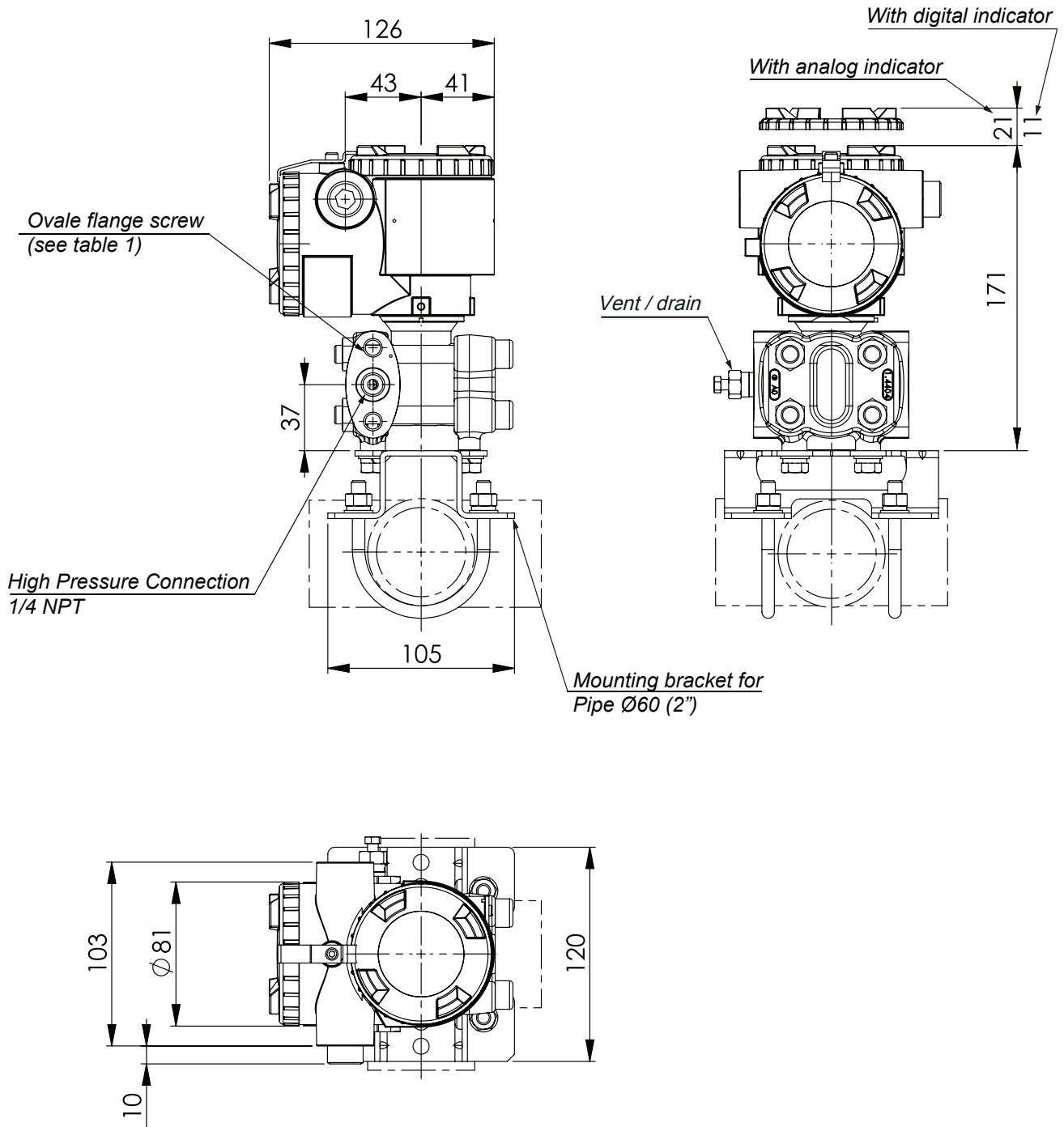
CODE SYMBOL

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	DESCRIPTION																																																																																																																																																																																									
F	K	A					S									Type Smart 4-20 mAdc + Georgin/Hart digital® signal Connections <table border="1"> <tr> <th>Process</th><th>Oval flange</th><th>Conduit</th></tr> <tr> <td>1/4-18 NPT</td><td>7/16-20 UNF</td><td>M 20 x 1,5</td></tr> <tr> <td>1/4-18 NPT</td><td>7/16-20 UNF</td><td>1/2-14 NPT</td></tr> <tr> <td>1/4-18 NPT</td><td>M10</td><td>Pg 13,5</td></tr> <tr> <td>1/4-18 NPT</td><td>M10</td><td>M 20 x 1,5</td></tr> <tr> <td>1/4-18 NPT</td><td>7/16-20 UNF</td><td>Pg 13,5</td></tr> </table> Range and materials <table border="1"> <tr> <th>Span(*1)</th><th>Process cover</th><th>Diaphragm</th><th>Wetted cell body</th></tr> <tr> <td rowspan="3">0,016/0,16 bar abs</td> <td>SS 316L</td><td>SS 316L</td><td>SS 316L</td></tr> <tr> <td>SS 316L</td><td>Hastelloy C</td><td>Hastelloy C</td></tr> <tr> <td>SS 316L</td><td>Gold coat</td><td>SS 316L</td></tr> <tr> <td rowspan="3">0,016/1,3 bar abs</td> <td>PVDF insert</td><td>Hastelloy C</td><td>Hastelloy C</td></tr> <tr> <td>SS 316L</td><td>SS 316L</td><td>SS 316L</td></tr> <tr> <td>SS 316L</td><td>Hast.C</td><td>Hastelloy C</td></tr> <tr> <td rowspan="3">0,05/5 bar abs</td> <td>SS 316L</td><td>Gold coat</td><td>SS 316L</td></tr> <tr> <td>SS 316L</td><td>PVDF insert</td><td>Hastelloy C</td></tr> <tr> <td>SS 316L</td><td>Hastelloy C</td><td>Hastelloy C</td></tr> <tr> <td rowspan="3">0,3/30 bar abs</td> <td>SS 316L</td><td>SS 316L</td><td>SS 316L</td></tr> <tr> <td>SS 316L</td><td>Hastelloy C</td><td>Hastelloy C</td></tr> <tr> <td>SS 316L</td><td>Gold coat</td><td>SS 316L</td></tr> <tr> <td rowspan="2">1/100 bar abs</td> <td>PVDF insert</td><td>Hastelloy C</td><td>Hastelloy C</td></tr> <tr> <td>SS 316L</td><td>SS 316L</td><td>SS 316L</td></tr> <tr> <td>SS 316L</td><td>Gold coat</td><td>SS 316L</td><td>SS 316L</td></tr> </table> Indicator & Arrester <table border="1"> <tr> <th>Indicator</th><th>Arrester</th><th>Initial setting</th></tr> <tr> <td>None</td><td>None</td><td rowspan="10">4-20mA DC + Hart® / Georgin digital signal "SMART"</td></tr> <tr> <td>Analog, 0-100% linear scale</td><td>None</td></tr> <tr> <td>Analog, Custom scale</td><td>None</td></tr> <tr> <td>Analog, double scale</td><td>None</td></tr> <tr> <td>None</td><td>Yes</td></tr> <tr> <td>Analog, 0-100% linear scale</td><td>Yes</td></tr> <tr> <td>Analog, Custom scale</td><td>Yes</td></tr> <tr> <td>Analog, double scale</td><td>Yes</td></tr> <tr> <td>Digital, 0-100%</td><td>None</td></tr> <tr> <td>Digital, Custom scale</td><td>None</td></tr> <tr> <td>Digital, 0-100%</td><td>Yes</td></tr> <tr> <td>Digital, Custom scale</td><td>Yes</td></tr> <tr> <td>Digital, 0-100% with push button</td><td>None</td></tr> <tr> <td>Digital, Custom scale with push button</td><td>None</td></tr> <tr> <td>Digital, 0-100% with push button</td><td>Yes</td></tr> <tr> <td>Digital, Custom scale with push button</td><td>Yes</td></tr> </table> Approvals for hazardous locations (consult Georgin for availability) <table border="1"> <tr> <td>A</td><td>None (Standard)</td></tr> <tr> <td>X</td><td>ATEX - 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Explosion-Proof & Intrinsic Safety combined approval (digit 4 = "T" only)</td></tr> </table> Side vent/drain & mounting bracket <table border="1"> <tr> <th>Side vent/drain</th><th>Mounting bracket</th></tr> <tr> <td>None</td><td>None</td></tr> <tr> <td>None</td><td>Yes, SS 304L</td></tr> <tr> <td>None</td><td>Yes, SS 316L</td></tr> <tr> <td>Yes</td><td>None</td></tr> <tr> <td>Yes</td><td>Yes, SS 304L</td></tr> <tr> <td>Yes</td><td>Yes, SS 316L</td></tr> </table> SS parts <table border="1"> <tr> <th>SS tag plate</th><th>SS housing</th></tr> <tr> <td>None</td><td>None</td></tr> <tr> <td>Yes</td><td>None</td></tr> <tr> <td>None</td><td>Yes</td></tr> <tr> <td>Yes</td><td>Yes</td></tr> </table> Special applications & fill fluid <table border="1"> <tr> <th>Treatment</th><th>Fill fluid</th></tr> <tr> <td>None (std)</td><td>Silicone oil</td></tr> <tr> <td>Degreasing</td><td>Silicone oil</td></tr> <tr> <td>NACE specification</td><td>Silicone oil</td></tr> </table> Process cover gasket <table border="1"> <tr> <td>- A</td><td>Viton</td></tr> <tr> <td>- C</td><td>PTFE square section gasket in stainless steel flange</td></tr> <tr> <td>- D</td><td>PTFE square section gasket in PVDF insert</td></tr> </table> Bolts/screws material <table border="1"> <tr> <td>A</td><td>Carbon steel Cr-Mo (standard) M10</td></tr> <tr> <td>U</td><td>SS 316 (L) / 316 (L) (bolt/nuts) M10</td></tr> <tr> <td>W</td><td>SS 660 / 660 (bolt/nuts) M10</td></tr> </table> Special options or design <table border="1"> <tr> <td>(*2) -</td><td>Special, no code available</td></tr> </table>	Process	Oval flange	Conduit	1/4-18 NPT	7/16-20 UNF	M 20 x 1,5	1/4-18 NPT	7/16-20 UNF	1/2-14 NPT	1/4-18 NPT	M10	Pg 13,5	1/4-18 NPT	M10	M 20 x 1,5	1/4-18 NPT	7/16-20 UNF	Pg 13,5	Span(*1)	Process cover	Diaphragm	Wetted cell body	0,016/0,16 bar abs	SS 316L	SS 316L	SS 316L	SS 316L	Hastelloy C	Hastelloy C	SS 316L	Gold coat	SS 316L	0,016/1,3 bar abs	PVDF insert	Hastelloy C	Hastelloy C	SS 316L	SS 316L	SS 316L	SS 316L	Hast.C	Hastelloy C	0,05/5 bar abs	SS 316L	Gold coat	SS 316L	SS 316L	PVDF insert	Hastelloy C	SS 316L	Hastelloy C	Hastelloy C	0,3/30 bar abs	SS 316L	SS 316L	SS 316L	SS 316L	Hastelloy C	Hastelloy C	SS 316L	Gold coat	SS 316L	1/100 bar abs	PVDF insert	Hastelloy C	Hastelloy C	SS 316L	SS 316L	SS 316L	SS 316L	Gold coat	SS 316L	SS 316L	Indicator	Arrester	Initial setting	None	None	4-20mA DC + Hart® / Georgin digital signal "SMART"	Analog, 0-100% linear scale	None	Analog, Custom scale	None	Analog, double scale	None	None	Yes	Analog, 0-100% linear scale	Yes	Analog, Custom scale	Yes	Analog, double scale	Yes	Digital, 0-100%	None	Digital, Custom scale	None	Digital, 0-100%	Yes	Digital, Custom scale	Yes	Digital, 0-100% with push button	None	Digital, Custom scale with push button	None	Digital, 0-100% with push button	Yes	Digital, Custom scale with push button	Yes	A	None (Standard)	X	ATEX - 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Notes* :

- 1- Turn down of 100 : 1 is possible, but it should be used at a span greater than 1/40 of the maximum span for better performance.
- 2- When no code can be found in the current code symbols, place* in concerned code digit(s) & add* in 16 th digit.
- 3- Process cover with PVDF insert with 1/2-14 NPT side process connection/no vent drain, other upon request - square section PTFE gasket.
- 4- Our stainless steel bolts/nuts in SS 660 are in conformity with the NACE MR 0175/ISO 15156.
- 5- Code "D & V" FM approval only possible with electrical connection 1/2-14 NPT.

■ **OUTLINE DIAGRAM (unit : mm)**



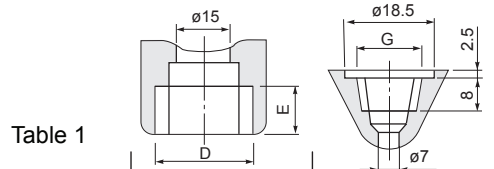
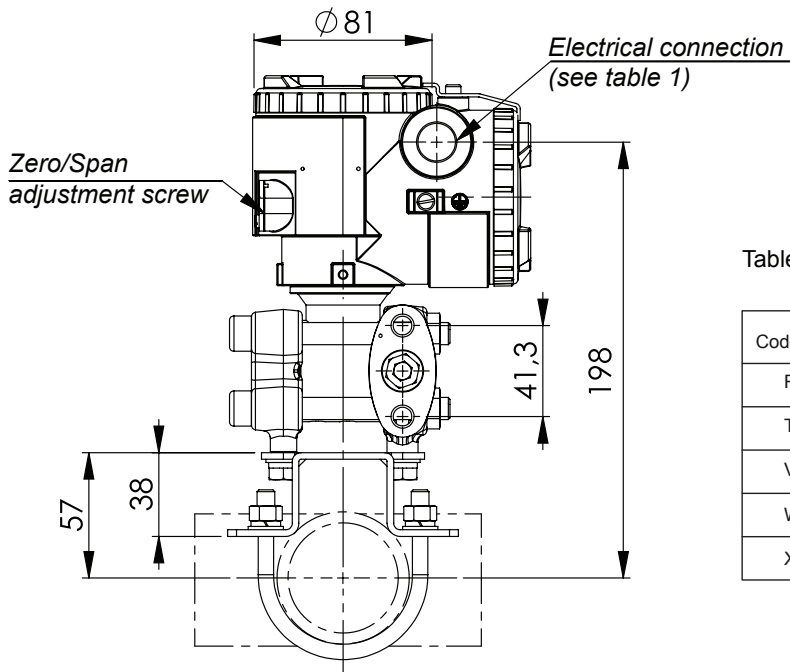


Table 1

Code X=4	Electrical connection		Oval flange screw
	D	E	
R	M20x1.5	16	7/16-20 UNF
T	1/2-14NPT	16	7/16-20 UNF
V	Pg13.5	10,5	M10
W	M20x1.5	16	M10
X	Pg13.5	10,5	7/16-20 UNF

Weight :

3,5 kg (without option)

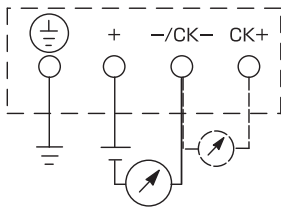
Add : - 0,8 kg for indicator option

- 2 kg for stainless steel housing option

- 0,5 kg for mounting bracket

X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ X ₈ -X ₉ X ₁₀ X ₁₁ X ₁₂ X ₁₃ - X ₁₄ X ₁₅ - X ₁₆ F K A □□□□ 5-□□□□□□ - □□□□	SPAN LIMIT	
	Min.	Max.
FKA□01	1,6 KPa (16 mbar)	16 KPa (160 mbar)
FKA□02	1,6 KPa (16 mbar)	130 KPa (1,3 bar)
FKA□03	5 KPa (50 mbar)	500 KPa (5 bar)
FKA□04	30 KPa (300 mbar)	3 MPa (30 bar)
FKA□05	100 KPa (1 bar)	10 MPa (100 bar)

CONNECTION DIAGRAM



EMC Directive (2004/108/EC)

All models of ProcessX series transmitters are in accordance with :

- the harmonized standards :
 - EN 61326-1 : 2006 (Electrical equipment for measurement, control and laboratory use - EMC requirement).
 - EN 61326-2-3 : 2006 (Part 2-3 : Particular requirement - Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning).

Emission limits : EN 61326-1 : 2006

Frequency range (MHz)	Limits	Basics standard
30 to 230	40 dB (µV/m) quasi peak, measured at 10 m distance	EN 55011 / CISPR 11 Group 1 Class A
230 to 1000	47 dB (µV/m) quasi peak, measured at 10 m distance	

Immunity requirements : EN 61326-1 : 2006 (Table 2)

Phenomenon	Test value	Basic standard	Performance criteria
Electrostatic discharge (EDS)	4 kV (Contact) 8 kV (Air)	EN 61000-4-2 IEC 61000-4-2	B
Electromagnetic field	10 V/m (80 to 1000 MHz) 3 V/m (1.4 to 2.0 GHz) 1 V/m (2.0 to 2.7 GHz)	EN 61000-4-3 IEC 61000-4-3	A
Rated power frequency magnetic field	30 A/m	EN 61000-4-8 IEC 61000-4-8	A
Burst	2 kV (5/50 NS, 5 kHz)	EN 61000-4-4 IEC 61000-4-4	B
Surge	1 kV line to line 2 kV line to line	EN 61000-4-5 IEC61000-4-5	B
Conducted RF	3 V (150 kHz to 80 MHz)	EN 61000-4-6 IEC61000-4-6	A

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.