

# STX2100

## Differential Pressure (Flow) Transmitter



### Models FKC...5

The STX2100 differential pressure (flow) transmitter accurately measures differential pressure, liquid level, gauge pressure or flow rate, 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

- High accuracy up to  $\pm 0.065\%$
- Minimum environmental influence
- HART® communications protocol
- Application flexibility
- Programmable output Linearization Function
- Burnout current flexibility  
*Under Scale:* 3.2 to 4.0mA,  
*Over Scale:* 20.0 to 22.5mA
- Dry calibration without reference pressure

# STX2100 Specifications

## Functional Specifications

### Type: FKC...5

Smart, 4 to 20mA DC + HART® digital signal

### Service

Liquid, gas, or vapour

### Pressure Ranges

- Static Pressures to 160 bar
- Span from 1 mbar to 30 bar

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

### Lower Limit of Static Pressure (Vacuum Limit)

- *Silicone oil fill sensor*: See Code Symbols table
- *Fluorinated oil fill sensor*: 660 mbar absolute at temperatures below +60°C

### Over Range Limit

To maximum static pressure limit

### Output Signal

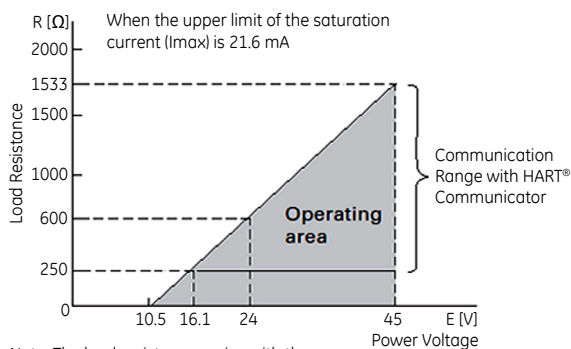
4 to 20mA DC (linear or square root) with digital signal superimposed on the 4 to 20mA signal

### Power Supply

- Transmitter operates on 10.5V to 45V DC at transmitter terminals.
- 10.5V to 32V DC for the units with optional arrester.

### Load Limitations (see figure below)

For use with a HART® communicator, a minimum load of 250Ω is required.



Note: The load resistance varies with the upper limit of the saturation current ( $I_{max}$ ) as follows:

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

### CE Marking

The product is CE marked for electromagnetic compatibility directive 2014/30/EU, and on hazardous location approval options (10th code digit = K, M, N, P, Q, R, T, W, and X), use in explosive atmospheres in accordance with 'ATEX' directive 2014/34/EU.

The product has been assessed as a 'pressure accessory' assessed against the requirements for sound engineering practice in accordance with the pressure equipment directive 2014/68/EU.

## Hazardous Locations

Note: cCSAus certified models are assessed as 'Single Seal' devices in accordance with ANSI/ISA 12.27.01-2011, rated -40°C to +85°C, maximum working pressure 18 MPa (180 bar).

Authority (Digit 10=)	Intrinsic safety
ATEX (K/M/W) IECEx (N/T/W)	II 1 G Ex ia IIC T5 Ga (-40°C ≤ Ta ≤ +50°C) Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +70°C) 1. Certificates DEKRA 14ATEX0014X, IECEx CSA 14.0009X 2. Entity Parameters Ui ≤ 28 Vdc, Ii ≤ 94.3 mA, Pi ≤ 0.66 W Ci = 36 nF/26 nF for models with/without Arrester Li = 0.7 mH/0.6 mH for models with/without Analogue Indicator
cCSAus (J/L/W)	Class I, Division 1, Groups A, B, C, and D Exia T4 (-40°C ≤ Ta ≤ +70°C) or T5 (-40°C ≤ Ta ≤ +50°C) Control Drawing X-A3-0605 Enclosure Type 4X Single Seal (see note) 1. Certificate CSA 70049572 2. Entity parameters Vmax = 28 Vdc, Imax = 94.3 mA, Pmax = 0.66 W Ci = 36 nF/26 nF for models with/without Arrester Li = 0.7 mH/0.6 mH for models with/without Analogue Indicator
Authority (Digit 10=)	Flameproof / Explosion proof
ATEX (M/W/X) IECEx (N/R/W)	II 2 G Ex d IIC T6 Gb (-40°C ≤ Ta ≤ +65°C) Ex d IIC T5 Gb (-40°C ≤ Ta ≤ +85°C) Class I, Division 1, Groups C and D, T5 (Ta + 85°C) 1. Certificates DEKRA 14ATEX0012X IECEx CSA 14.0008X 2. Electrical ratings • Model without arrester: 45 Vdc max., 4-20 mA loop powered, 1.0125 W max. • Model with arrester: 32 Vdc max., 4-20 mA loop powered, 1.0125 W max.
cCSAus (E/L/W)	Class I, Groups C and D T5 (-40°C ≤ Ta ≤ +85°C) or T6 (-40°C ≤ Ta ≤ +65°C) Enclosure Type 4X Single Seal (see note) 1. Certificate CSA 70049572 2. Electrical ratings 42.4 Vdc max., 4-20 mA loop powered.
Authority (Digit 10=)	Type "nA" / Non-incendive & Division 2
ATEX (M/P/W) IECEx (N/Q/W)	II 3 G Ex nA IIC T5 Gc (-40°C ≤ Ta ≤ +70°C) 1. Certificates DEKRA 14ATEX0013 IECEx CSA 14.0009X 2. Electrical ratings • Model without arrester 45 Vdc max., 4-20 mA loop powered, 1.0125 W max. • Model with arrester 32 Vdc max., 4-20 mA loop powered, 1.0125 W max Optional analogue indicator not available for type "nA"
cCSAus (J/L/W)	Class I, Division 2, Groups A, B, C, and D Non-incendive Class I, Division 2, Groups A, B, C, and D T4 (-40°C ≤ Ta ≤ +70°C) or T5 (-40°C ≤ Ta ≤ +50°C) Control Drawing X-A3-0605 Enclosure Type 4X Single Seal (see note) 1. Certificate CSA 70049572 2. Electrical ratings (Class I, Division 2) 42.4 Vdc max., 4-20 mA loop powered Optional analogue indicator not available for Class I, Division 2 3. Electrical ratings (Non-incendive Class I, Division 2) Vmax = 28 Vdc, Imax = 94.3 mA, Pmax = 0.66 W Ci = 36 nF/26 nF for models with/without Arrester Li = 0.7 mH/0.6 mH for models with/without Analogue Indicator

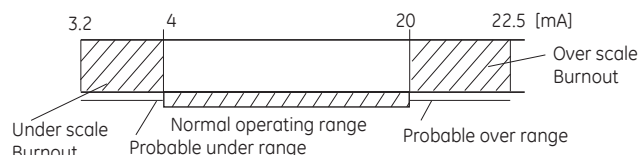
### Burnout Direction

If self-diagnostic detects transmitter failure, the analogue signal will be driven to one of the following:

**Output Hold:** Output signal is held at the value just before failure happens.

**Output Overscale:** Adjustable within the range of 20.0mA to 22.5mA, factory set to 20.8 mA

**Output Underscale:** Adjustable within the range of 3.2mA to 4.0mA, factory set to 3.8 mA



Output limits conforming to NAMUR NE43 by order, factory set to Hold

### Zero/Span Adjustment

Zero and span are adjustable externally from the adjustment screw, or via a HART® communicator.

### Damping

The time constant is adjustable from 0.06 to 32 seconds, factory set to 0.06 s

### Zero Elevation/Suppression

-100% to +100% of URL

### Normal/Reverse Action

Selectable, factory set to Normal

### Indication

Analogue indicator or 5-digit LCD meter, as specified

### Loop-Check Output

Transmitter can be configured to provide a constant signal between 3.2mA and 22.5mA

### Temperature Limit

Ambient: -40 to +85°C

(-20 to +80°C for LCD indicator)

(-40 to +60°C for arrester option)

(-10 to +60°C for fluorinated oil filled sensor)

Ambient and process temperature restrictions apply to versions approved for use in hazardous locations.

Process: -40 to +120°C for silicone oil fill sensor

-20 to +80°C for fluorinated oil fill sensor

Storage: -40 to +90°C

### Humidity Limit

0 to 100% RH

### Local Configurator with LCD Display (Option)

Local configurator with 3 push button and LCD display

### Programmable Output Linearization Function

Output signal can be characterized with "14 points linear approximation function"

### Communication

The following items can be displayed or configured:

Items	HART® Protocol		By Local Configurator (with 3 push-button LCD indicators)	
	Display	Set	Display	Set
Tag No.	✓	✓	✓	✓
Model No.	✓	✓	✓	✓
Serial No. & Software Version	✓	—	✓	—
Engineering Unit	✓	✓	✓	✓
Range Limit	✓	—	✓	—
Measuring Range	✓	✓	✓	✓
Damping	✓	✓	✓	✓
Output Mode - Linear	✓	✓	✓	✓
Output Mode - Square Root	✓	✓	✓	✓
Burnout Direction	✓	✓	✓	✓
Calibration	✓	✓	✓	✓
Output Adjust	—	✓	—	✓
Data	✓	—	✓	—
Self Diagnoses	✓	—	✓	—
External Switch Lock	✓	✓	✓	✓
Transmitter Display	✓	✓	✓	✓
Rerange	✓	✓	✓	✓
Saturate Current	✓	✓	✓	✓
Write Protect	✓	✓	✓	✓
History - Calibration	✓	✓	✓	✓
History - Ambient Temperature	✓	—	✓	—

Note: The HART® communicator's version must be higher than 7.0 for supporting the following items: 'Saturate current', 'Write Protect' and 'History'.

## Performance Specifications for Linear Output

Selectable, factory set to Linear Output

Reference conditions: silicone oil fill, 316L SS isolating diaphragms, 4 to 20mA analogue output in linear mode

### Accuracy Rating

(including linearity, hysteresis, and repeatability)

#### • Max Span: 320 mbar and above models

For spans greater than 1/10 of URL:

±0.065% of span

For spans below 1/10 of URL:

± (0.015 + 0.05 (0.1 x URL / Span)) % of span

#### • Max Span: 10 mbar, 60 mbar models

For spans greater than 1/10 of URL:

±0.1% of span

For spans below 1/10 of URL:

± (0.05 + 0.05 (0.1 x URL / Span)) % of span

### Stability

±0.1% of upper range limit (URL) for 10 years for 6th digit code 3, 5, 6, 8.

# STX2100 Specifications

## Temperature Effect

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

Zero Shift	Total Effect
Range Code (6th digit in Code symbols): "1"/10mbar, "2"/60mbar	
$\pm (0.125 + 0.1 \times \text{URL} / \text{Span}) \%$	$\pm (0.15 + 0.1 \times \text{URL} / \text{Span}) \%$
Range Code (6th digit in Code symbols): "3"/320mbar, "5"/1300mbar, "6"/5000mbar, "8"/30000mbar	
$\pm (0.075 + 0.0125 \times \text{URL} / \text{Span}) \%$	$\pm (0.095 + 0.0125 \times \text{URL} / \text{Span}) \%$

Double the effects for material code (7th digit in Code symbols) "H", "M", and "T".

## Static Pressure Effect

Static Pressure Code (5th digit in Code symbols)	Zero Shift (% of URL)
"1"/10mbar sensor	$\pm 0.2\%/32\text{bar}$
"2"/60mbar sensor	$\pm 0.2\%/100\text{bar}$
"3"/all ranges	$\pm 0.035\%/69\text{ bar}$

Double the effects for material code (7th digit in Code symbols) "H", "M", and "T"

## Overrange Effect

Static Pressure Code (5th digit in Code symbols)	Zero Shift (% of URL)
"1"/10mbar sensor	$\pm 0.2\%/32\text{bar}$
"2"/60mbar sensor	$\pm 0.2\%/100\text{bar}$
"3" (FKC□35, 36, 38)	$\pm 0.1\%/160\text{bar}$
"3" (FKC□33)	$\pm 0.15\%/160\text{bar}$

Double the effects for material code (7th digit in Code symbols) "H", "M", and "T"

## Performance Specifications for Square Root Output

Selectable, factory set to Linear Output

### Accuracy Rating

Output	Span > 0.1 × URL	Span < 0.1 × URL
50 to 100%	±0.065%	±(0.015 + 0.05 × 0.1 × URL/Span)%
20 to 50%	±0.163%	±2.5 × (0.015 + 0.05 × 0.1 × URL/Span)%
10 to 20%	±0.325%	±5 × (0.015 + 0.05 × 0.1 × URL/Span)%
Output	Accuracy	
Max Span 10mbar, 60mbar Model		
50 to 100%	±0.1%	
20 to 50%	±0.25%	
10 to 20%	±0.5%	

## Temperature Effect

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

Range Code (6th digit in Code symbols)	Shift at 20% Output Point
"1" and "2"	$\pm (0.375 + 0.25 \times \text{URL}/\text{Span})\%/28^\circ\text{C}$
"3" through "8"	$\pm (0.24 + 0.03125 \times \text{URL}/\text{Span})\%/28^\circ\text{C}$

## Low Flow Cut-off

Customer configurable for any point from 0 to 20% of output

## Performance Specifications Common to Both Output Modes

### Supply Voltage Effect

Less than 0.005% of calibrated span per 1V

### Update Rate

60 ms

### Response Time

(at 63.3% of output signal without damping)

Range Code (6th digit in Code symbols)	Time Constant (at 23°C)	Dead Time
"1"	0.33 sec	0.12 sec
"2"	0.3 sec	
"3"	0.12 sec	
"5" through "8"	0.08 sec	
Response Time = Time Constant + Dead Time		

## Mounting Position Effect

Zero shift less than 1.2 mbar for a 10° tilt in any plane, no effect on span

*This error can be corrected by adjusting Zero. Double the effect for a fluorinated oil fill sensor.*

## Vibration Effect

<  $\pm 0.25\%$  of span for spans greater than 1/10 of URL  
Frequency 10 to 150 Hz, acceleration 39.2 m/s<sup>2</sup>

## Dielectric Strength

500V AC, 50/60Hz 1 min., between circuit and earth, except models with arrester option

## Insulation Resistance

More than 100 MΩ at 500V DC

## Internal Resistance for External Field Indicator

12Ω max. (connected to test terminals CK+ and CK-)

## Physical Specifications

### Electrical Connections

1/2-14 NPT, Pg13.5 or M20×1.5

### Process Connections

1/4-18 NPT on 54mm centers, as specified

Meets DIN 19213

*Optional:* 1/2-14 NPT for oval flanges

### Process-Wetted Parts Material

Material Code (7th digit in Code symbols)	Process Cover	Diaphragm	Wetted Sensor Body	Vent/ Drain
V	316L SS	316L SS	318LN SS (*1)	316L SS
W	316L SS	Hastelloy-C	318LN SS (*1)	316L SS
H	316L SS (*2)	Hastelloy-C	Hastelloy-C lining	316L SS
J	316L SS	316L SS + Gold Coating	318LN SS (*1)	316L SS
M	316L SS (*2)	Monel	Monel lining	316L SS
T	316L SS (*2)	Tantalum	Tantalum lining	316L SS
C	316L SS	316L SS + Gold/ Ceramic coating	316L SS + Gold/ Ceramic coating	316L SS

**Notes:** (\*1) Only with Digit 5 = 1 or 2, otherwise 316L SS

(\*2) PVDF insert supplied with Digit 5 = 8 (LP and HP sides) and 9 (LP side)

**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 aluminum alloy finished with polyester coating (standard), or 316 stainless steel, as specified.

*Bolts and Nuts:*

- Cr-Mo alloy (standard)
- 316 stainless steel
- SS660 for NACE Service

*Fill Fluid:*

Silicone oil (standard) or fluorinated oil

*Mounting Bracket:*

304 stainless steel

### Environmental Protection

IEC IP66/67 and NEMA 4X

### Mounting

- *Without mounting bracket:*  
direct mounting on manifold (optional)
- *With optional mounting bracket:*  
for 50mm (2") pipe or direct wall mounting

### Mass (Weight)

*Transmitter:* approximately 3.5kg without options

*Add:* 0.3kg for indicator

0.5kg for mounting bracket

2kg for stainless steel housing (optional)

## Optional Features

### Indicator

A plug-in analogue indicator (2.5% accuracy)

### Local Configurator with LCD Display

An optional 5 digits LCD meter with 3 push buttons

### Arrester

- A built-in arrester protects the electronics from lightning surges.
- *Lightning surge immunity:* 4kV (1.2 × 50μs)

### Oxygen Service

Special cleaning procedures are followed throughout the process to maintain all process wetted parts oil free. The fill fluid is fluorinated oil.

### Chlorine Service

The fill fluid is fluorinated oil.

### Degreasing

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

### NACE Specification

Metallic materials for all pressure boundary parts comply with NACE MR0175/ISO 15156.

660 stainless steel bolts and nuts comply with NACE MR0175/ISO 15156.

### Optional Tag Plate

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

Outline Diagram <7th digit code : V, H, M, T>

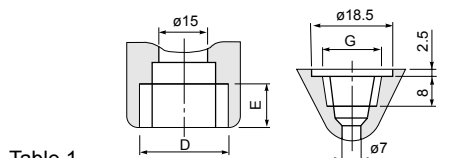
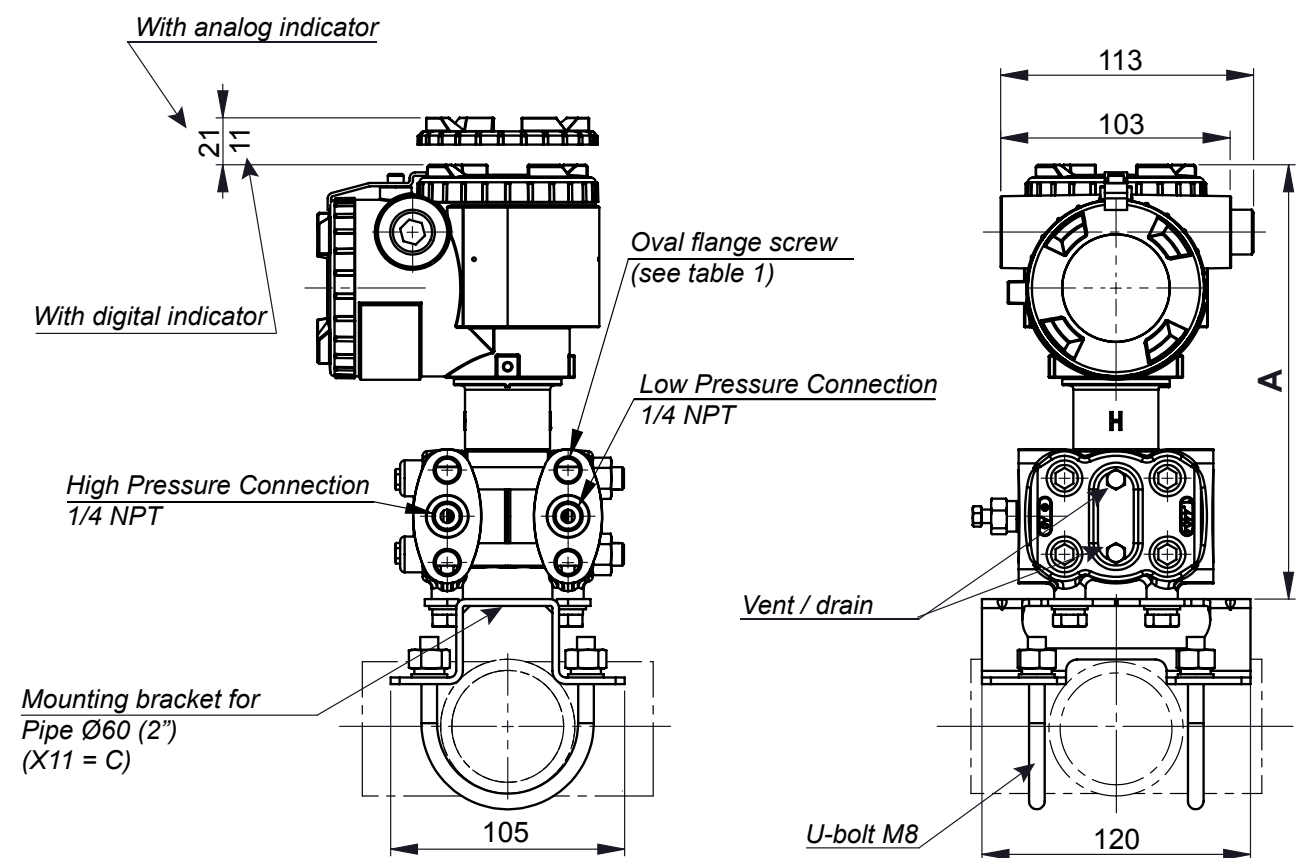
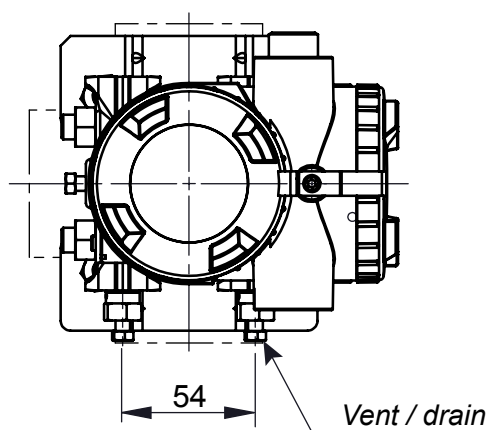
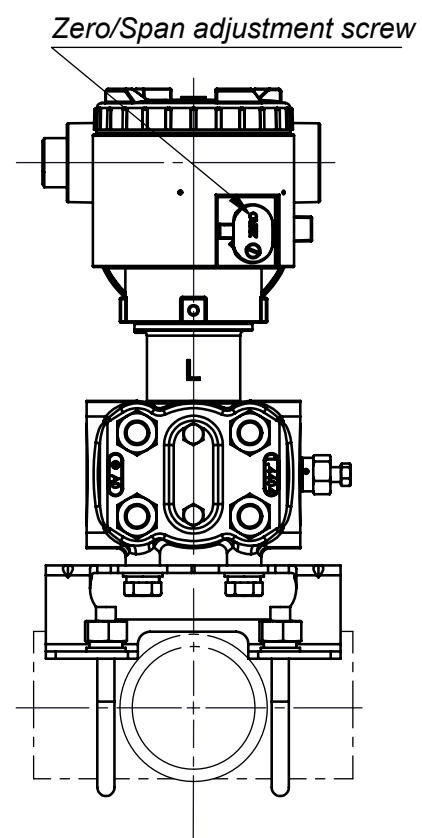
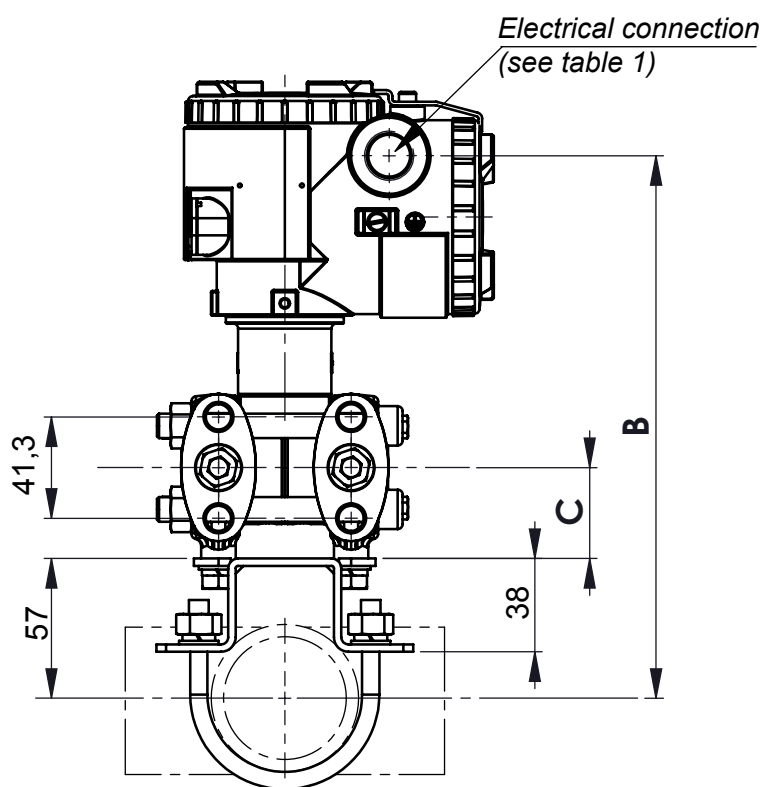


Table 1

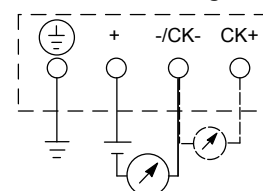
Code X=4	Electrical connection		Oval flange screw
	D	E	
R	M20x1.5	16	7/16-20 UNF
T	1/2-14NPT	16	7/16-20 UNF
V	Pg13.5	10,5	M10
W	M20x1.5	16	M10
X	Pg13.5	10,5	7/16-20 UNF

[Note: All units are mm]

Model	Dimensions		
	A	B	C
FKC□11	198,5	225,5	38,5
FKC□22			
FKC□33	194	194	37
FKC□35			
FKC□36			
FKC□38	198,5	225,5	38,5



*Connection Diagram*





## Code Symbols for STX 2100-

2		3	4	5	6	7	8	9		10	11	12	13	14		15	16	DESCRIPTION									
							5											Type									
F		K	C															Smart 4-20 mA DC + HART™ digital signal									
		Connections																									
		Process connections																Oval flange connection		Electrical connection							
M		(*9)																1/4-18 NPT	M10	M20 x 1,5							
N		(*9, *13)																1/4-18 NPT	M10	Pg 13,5							
P		(*9)																1/4-18 NPT	M10	1/2-14 NPT							
R																		1/4-18 NPT	7/16-20 UNF	M20 x 1,5							
T																		1/4-18 NPT	7/16-20 UNF	1/2-14 NPT							
V		(*13)																1/4-18 NPT	M10	Pg 13,5							
W																		1/4-18 NPT	M10	M20 x 1,5							
X		(*13)																1/4-18 NPT	7/16-20 UNF	Pg 13,5							
Range and wetted parts material																											
																		Static pressure limits		Spans		Process cover		Measuring diaphragm		Wetted cell body	
																						LP side	HP side				
1 1 V																		-1 to 32 bar	10/100 mm WC	316L SS		316L SS	318LN SS				
1 1 W																				316L SS		Hastelloy C	318LN SS				
1 1 J																				316L SS		Gold coat	318LN SS				
1 1 H																				316L SS		Hastelloy C	Hastelloy C				
2 2 V																		-1 to 100 bar	10/600 mm WC	316L SS		316L SS	318LN SS				
2 2 W																				316L SS		Hastelloy C	318LN SS				
2 2 J																				316L SS		Gold coat	318LN SS				
2 2 H																				316L SS		Hastelloy C	Hastelloy C				
3 3 V																		(*14)	32/3200 mm WC	316L SS		316L SS	316L SS				
3 3 W																				316L SS		Hastelloy C	316L SS				
3 3 H																				316L SS		Hastelloy C	Hastelloy C				
3 3 M																				316L SS		Monel	Monel lining				
3 3 J																				316L SS		Gold coat	316L SS				
3 3 C																				316L SS		Gold/ceramic	Gold/ceramic				
3 3 T																				316L SS		Tantalum	Tantalum lining				
3 5 V																				316L SS		316L SS	316L SS				
3 5 W																			316L SS		Hastelloy C	316L SS					
3 5 H																			316L SS		Hastelloy C	Hastelloy C					
3 5 M																			316L SS		Monel	Monel lining					
3 5 J																			316L SS		Gold coat	316L SS					
3 5 C																			316L SS		Gold/ceramic	Gold/ceramic					
3 5 T																			316L SS		Tantalum	Tantalum lining					
3 6 V																			316L SS		316L SS	316L SS					
3 6 W																			316L SS		Hastelloy C	316L SS					
3 6 H																		316L SS		Hastelloy C	Hastelloy C						
3 6 J																		316L SS		Gold coat	316L SS						
3 6 M																		316L SS		Monel	Monel lining						
3 6 T																		316L SS		Tantalum	Tantalum lining						
3 8 V																		316L SS		316L SS	316L SS						
3 8 W																		316L SS		Hastelloy C	316L SS						
3 8 J																		316L SS		Gold coat	316L SS						
8 1 H																		(*5)	10/100 mm WC	PVDF insert		Hastelloy C	Hastelloy C				
8 2 H																			10/600 mm WC	PVDF insert		Hastelloy C	Hastelloy C				
8 3 H																			32/3200 mm WC	PVDF insert	PVDF insert	Hastelloy C	Hastelloy C				
8 3 M																				PVDF insert	Monel	Monel lining					
8 3 T																				PVDF insert	Tantalum	Tantalum lining					
8 5 H																				0,13/13 m WC	PVDF insert	Hastelloy C	Hastelloy C				
8 5 M																			PVDF insert		Monel	Monel lining					
8 5 T																			PVDF insert		Tantalum	Tantalum lining					
8 6 H																			PVDF insert		Hastelloy C	Hastelloy C					
8 6 M																			0,5/50 m WC	PVDF insert	Hastelloy C	Hastelloy C					
8 6 T																			PVDF insert	Monel	Monel lining						
9 1 H																			(*5)	10/100 mm WC	PVDF insert	316L SS	Hastelloy C	Hastelloy C			
9 2 H																		10/600 mm WC		PVDF insert	316L SS	Hastelloy C	Hastelloy C				
9 3 H																		32/3200 mm WC		PVDF insert	316L SS	Hastelloy C	Hastelloy C				
9 3 M																				PVDF insert	Monel	Monel lining					
9 3 T																				PVDF insert	Tantalum	Tantalum lining					
9 5 H																				0,13/13 m WC	PVDF insert	316L SS	Hastelloy C	Hastelloy C			
9 5 M																		PVDF insert			Monel	Monel lining					
9 5 T																		PVDF insert			316L SS	Hastelloy C	Hastelloy C				
9 6 H																		PVDF insert			316L SS	Hastelloy C	Hastelloy C				
9 6 M																		0,5/50 m WC		PVDF insert	316L SS	Hastelloy C	Monel lining				
9 6 T																				PVDF insert	316L SS	Tantalum	Tantalum lining				

### Notes\*:

1. NOT USED.
2. 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.
3. NOT USED.
4. GOLD COATING USED ON WETTED MEASURING CELL PARTS FOR HYDROGEN SERVICE. "HYDROSEAL" VERSION WITH GOLD CERAMIC COATING IS AVAILABLE ON REQUEST.
5. PROCESS COVER WITH PVDF INSERT WITH 1/2-14 NPT SIDE PROCESS CONNECTION/NO VENT DRAIN, OTHER UPON REQUEST - SQUARE SECTION PTFE GASKET. 'SINGLE SEAL' APPROVAL NOT AVAILABLE WHEN DIGIT 5 = 8 OR 9.
6. NOT USED.
7. STAINLESS STEEL BOLTS/NUTS IN SS 660 ARE IN CONFORMITY WITH NACE MR 0175 / ISO 15156 REQUIREMENTS AND MUST BE USED FOR NACE MR 0175 / ISO 15156 SERVICE.
8. NOT USED.
9. PROCESS CONNECTION ON THE BOTTOM SIDE.
10. NOT USED.
11. NOT USED.
12. APPROVAL OPTIONS PERMITTING TYPE ""nA"" / DIVISION 2 (DIGIT 10 = J, L, M, N, P, Q, OR W) ARE NOT AVAILABLE WITH ANALOGUE INDICATOR OPTIONS (DIGIT 9 = B, C, D, F, G, H, J OR K).
13. Pg 13,5 ELECTRICAL CONNECTION OPTIONS (DIGIT 4 = N, V OR X) ARE NOT AVAILABLE FOR USE WITH APPROVAL OPTIONS WHERE DIGIT 10 = E, L OR W.
14. "HYDROSEAL" MODEL WITH GOLD CERAMIC COATING ON A 316L STAINLESS STEEL SUBSTRATE. USE FOR IMPROVED RESISTANCE TO HYDROGEN PERMEATION.
15. ATEX APPROVAL OPTIONS ARE SUPPLIED WITH EQUIVALENT IECEx CERTIFICATION AS STANDARD (AND VICE-VERSA).







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