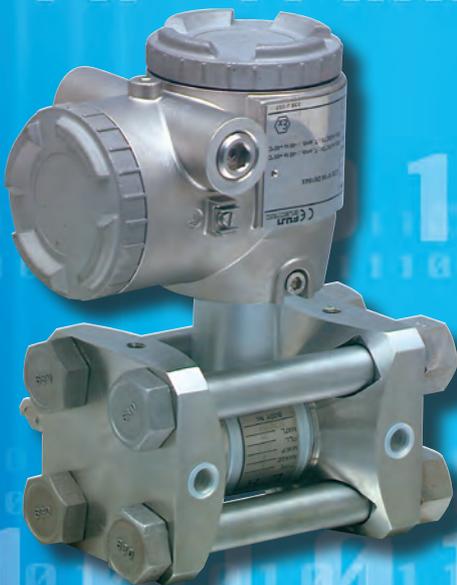
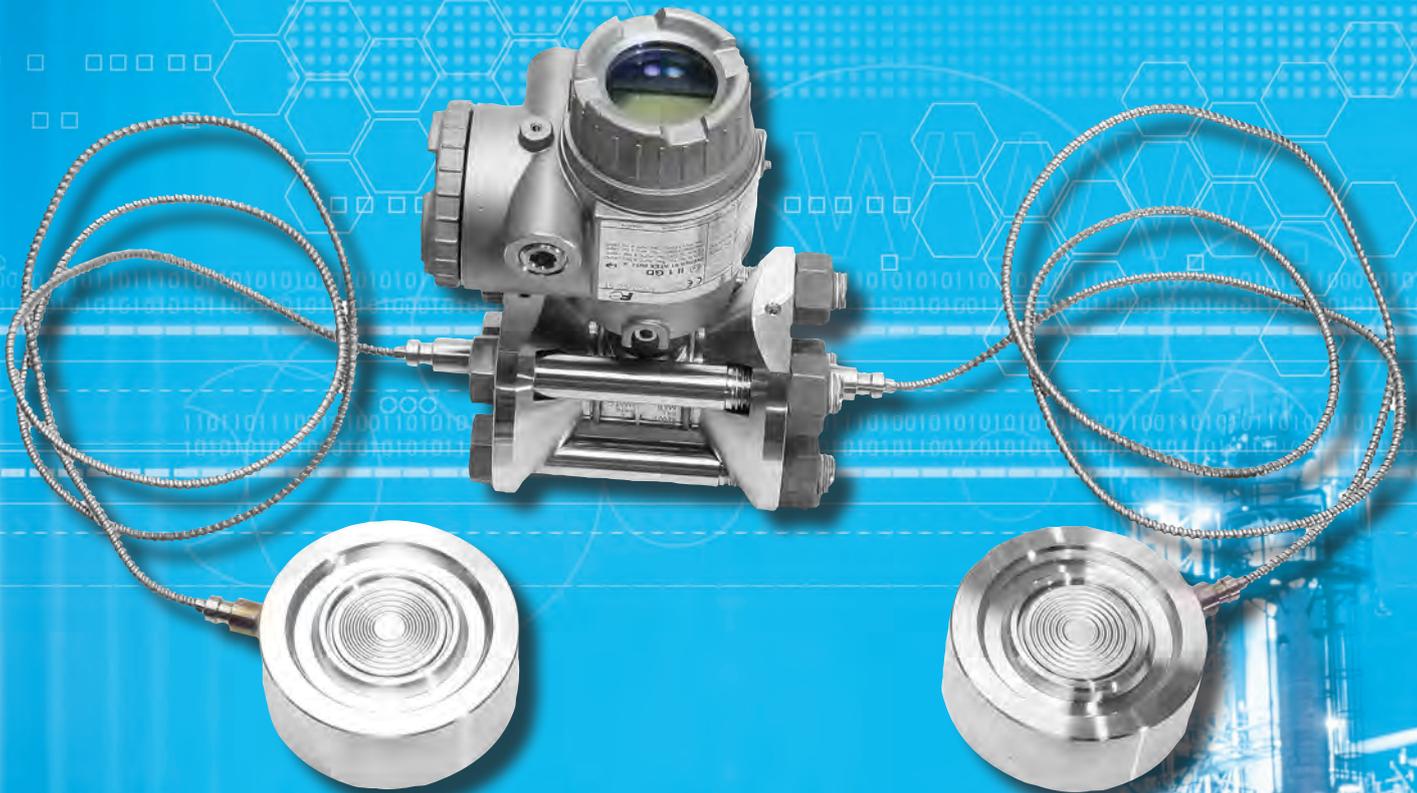


FKC - Differential Pressure (flow) Transmitter for High Static Pressure



Solutions for specific customer applications :

Based on extensive experience of supplying transmitters for Oil & Gas applications, Fuji Electric France, is proud to announce the release of its latest Differential Pressure as a direct response to our customer's requirement in high pressure applications that are traditionally found in Oil & Gas flow measurement. The experience and technical capability that we built into the new transmitter enables it to measure differential pressures of 130 mbar at static pressures of up to 15 000 Psi (1035 bar), typically found in top side and subsea applications.

Measuring principle :

The transmitter utilizes a unique micromachined capacitive silicon sensor with state of the art microprocessor technology to provide exceptional performance and functionality. The silicon sensor is assembled floating in measuring cell neck, which allows extreme high line pressures and improves the static pressure characteristics.

Robust construction :

The design is based on an all welded construction, where the welded assembling of the process covers on the measuring cell replaces the gaskets. Adapted SS 660 bolting and the specific process covers – NACE compatible – ensure that the required mechanical strength to the assembly is certified according to a PED category IV module H1.

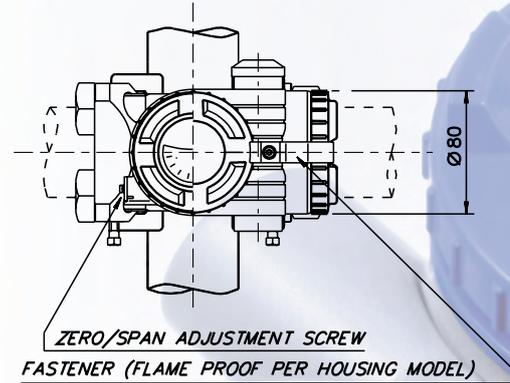
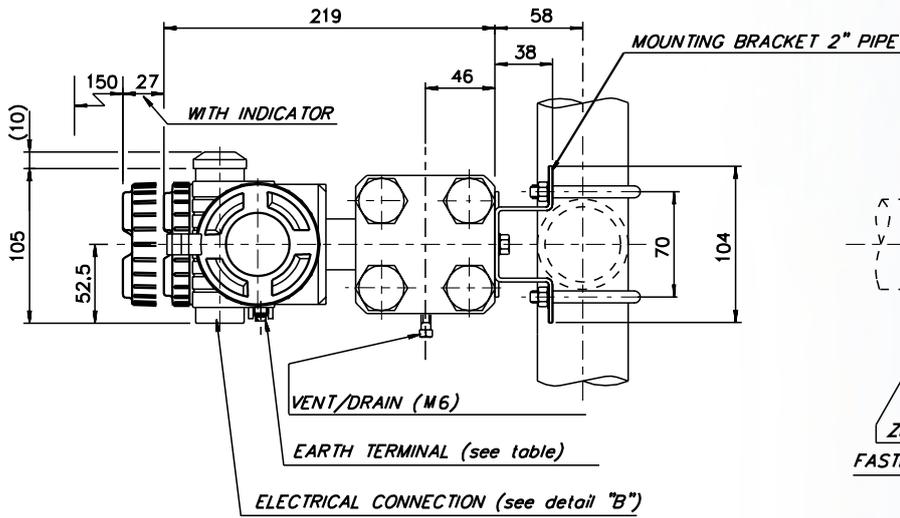
Performance specifications

Accuracy rating : (including linearity, hysteresis and repeatability)	For spans greater than 1/10 of URL : $\pm 0.1\%$ of span at reference conditions = 22°C $\pm 3^\circ\text{C}$ and atmospheric pressure
Stability	$\pm 0.2\%$ of upper range limit (URL) for 3 years (at reference conditions = 22°C $\pm 3^\circ\text{C}$ and atmospheric pressure)
Ambient temperature effect	Zero : $\pm (0.1 + 0.025 \times \text{URL} / \text{span})$ in % of URL / 28°C Total : $\pm (0.125 + 0.025 \times \text{URL} / \text{span})$ in % of URL / 28°C Double the effects for diaphragm material code "H" (7th digit in codes symbols)
Static pressure effect	Standard specifications : Zero : $\pm 0.1\%$ of URL / 10 MPa Hysteresis & repeatability of zero : any value inside the envelop of $\pm 0,1\%$ of URL/10 MPa Span : 0 to - 0.3% of span / 10 MPa Double the effects for diaphragm material code "H" (7th digit in codes symbols) Premium specifications : Zero : $\pm 0.1\%$ of URL / 10 MPa Hysteresis & repeatability of zero : $\pm 0,1\%$ of URL Max zero change = $\pm 0,15\%$ URL over steps of 10 MPa (curve shape for zero versus static pressure)
Supply voltage effect	Less than 0.05% of calibrated span per 10 V
RFI effect	Less than 0.2% of URL for the frequencies of 20 to 1000 MHz and field strength 30 V/m when electronics covers in place. (Classification : 2-abc : 0.2% span per SAMA PMC 33.1)
Mounting position effect	Zero shift : Less than 0.12 kPa {1.2 mbar} for a 10° tilt in any plane. No effect on span. This error can be corrected by adjusting Zero after installation.
Vibration effect	$< \pm 0,25\%$ of spans for spans greater than 1/10 of URL. Frequency 10 to 150 Hz, acceleration 39,2 m/sec ²
Dielectric strength	500 V AC, 50/60 Hz 1 min, between circuit and earth.
Insulation resistance	More than 100 MΩ at 500 V DC
Turn-on time	4 seconds

Specifications in case of square root output

Accuracy rating	Output 50 to 100% : $\pm 0,1\%$ of span 20 to 50% : $\pm 0,25\%$ of span 10 to 20% : $\pm 0,5\%$ of span
Ambient temperature effect	Shift at 20% output point : $\pm (0,3 + 0,25 \times \text{URL} / \text{span})$ in % of URL / 28°C
Low flow cut-off	Customer configurable for any point between 0 to 20% of output.

Outline dimensions

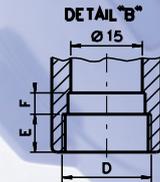
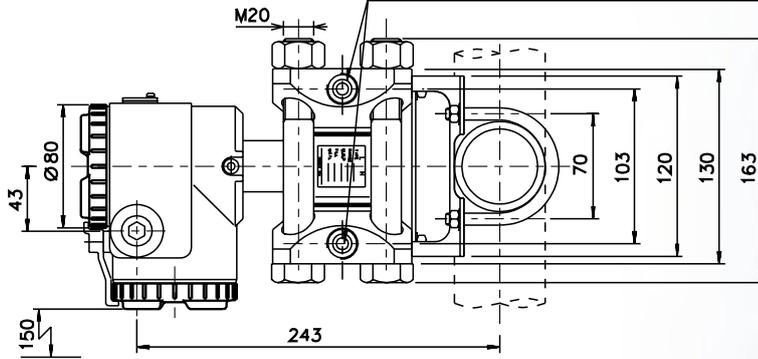


PROCESS CONNECTIONS

13/16-16 UNF - 2B SF562 CX20 - for 9/16 MP AUTOCLAVE CONNECTIONS

9/16-18 UNF - 2B F 250C - for 1/4 HP AUTOCLAVE CONNECTIONS

9/16-18 UNF - 2B SF 375 CX20 - for 3/8 MP AUTOCLAVE CONNECTIONS



TABLE

CONDUIT CONN.			EARTH TERMINAL
D	E	F	
1/2-14NPT	16	5	N°8 - 32UNC
M20x1.5	16	5	M4

FE Fuji Electric

amtek

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