

Differential Pressure (flowmeter) Transmitter 20 000 Psi Line Pressure



Fuji Electric France S.A.S.

FEF-21A2-E-700

Solutions for Super High Line Pressure for Flow and Differential Pressure Applications

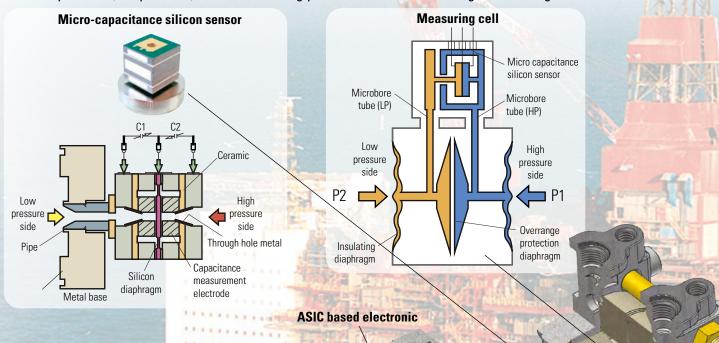
Based on more than 15 years experience of supplying Differential Pressure transmitters for Oil & Gas for line pressure of **more than 6000 Psi**, Fuji Electric France, is proud to announce the release of its latest Differential Pressure for **20 000 Psi** (1379 bar) line pressure as a direct response to our customer's requirements in **Super** 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 20 000 Psi (1379 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. Pressure transfer oil envelops the silicon sensor >>> FLOATING SILICON SENSOR.

Static pressure (line pressure) influence is strongly minimized thanks to floating sensor design.



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 SS660 bolting and the specific process covers NACE compatible.

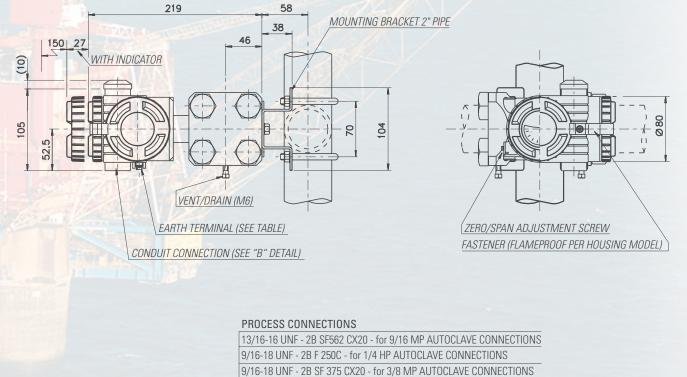
Physical Specifications

Process connections	Autoclave 9/16-18 UNF - 2B SF 375CX20, 9/16-18 UNF - 2B F 250C or 13/16-16UNF-2B SF 562CX20, 3/8-24 UNF - 2B/Speedbite SW125, 7/16-20 UNF - 2B/SF250 CX20			
Wetted parts materials *Nota : see table (code symbols)	Measuring cell and body / Diaphragm-Hastelloy C 276, other wetted parts material : Inconel 625			
Non wetted parts	Electronics housing: SS316 Bolts/nuts: ASTM - A453 Grad 660			
Ambient temperature	-5 to 85 °C			
Process temperature	-5 to 120 °C			
Remote seal designs	Available according customer specifications			

Performance Specifications

10115			
For spans greater than 1/10 of URL : ±0.1 % of span (reference conditions: 22 °C ±3 °C, atmospheric pressure)			
±0.2 % of upper range limit (URL) for 3 years (reference conditions: 22 °C ±3 °C, atmospheric pressure)			
Zero: ± (0.1+0.025 x URL / span) x 2 in % of span / 28 °C Total: ± (0.125+0.025 x URL / span) x 2 in % of span / 28 °C			
Zero: \pm 0.2 % of URL / 10 MPa Hysteresis & repeatability of zero : any value inside the envelop of \pm 0.2 % of URL/10 MPa Span: 0 to - 0.6 % of span / 10 MPa			
Less than 0.05 % of calibrated span per 10 V			
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)			
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 installatrion.			
$< \pm 0.25$ % of spans for spans greater than 1/10 of URL. Frequency 10 to 150 Hz, acceleration 39.2 m/sec ²			
500 V AC, 50/60 Hz 1 min, between circuit and earth.			
More than 100 MΩ at 500 V DC			
4 seconds			

OUTLINE DIMENSIONS



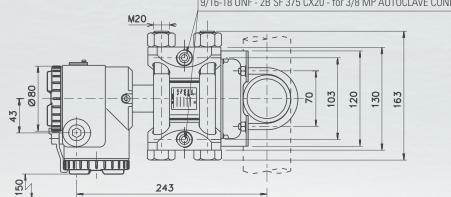
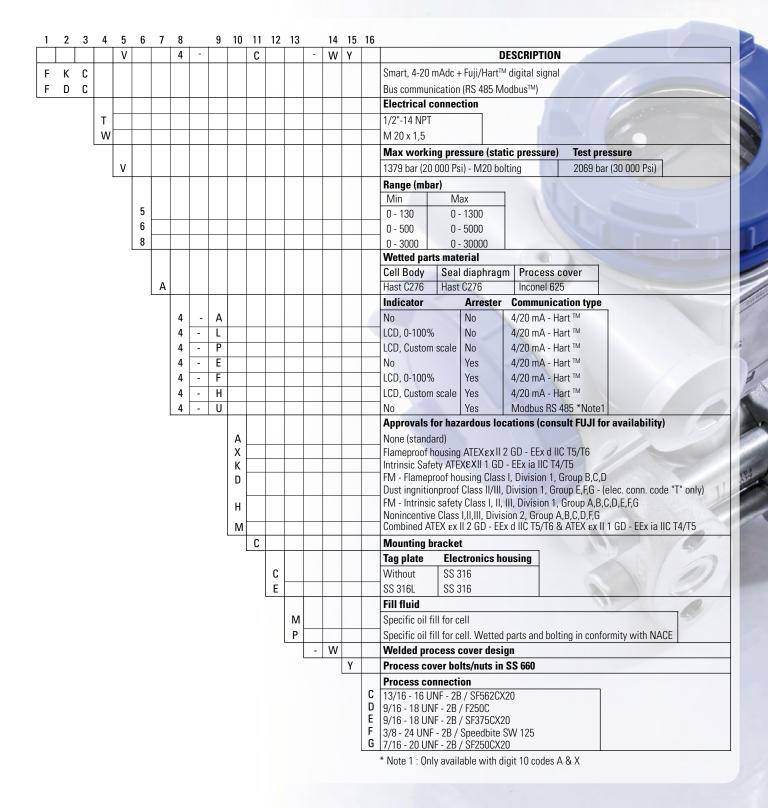






TABLE						
CONDUIT CON	NEC1	TON				
D	Ε	F	EARTH TERMINAL			
1/2-14 NPT	16	5	N°8 - 32UNC			
M20X1.5	16	5	M4			

CODE SYMBOLS



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