

# Differential Pressure (flowmeter) Transmitter 20 000 Psi Line Pressure





**ECNO612** 

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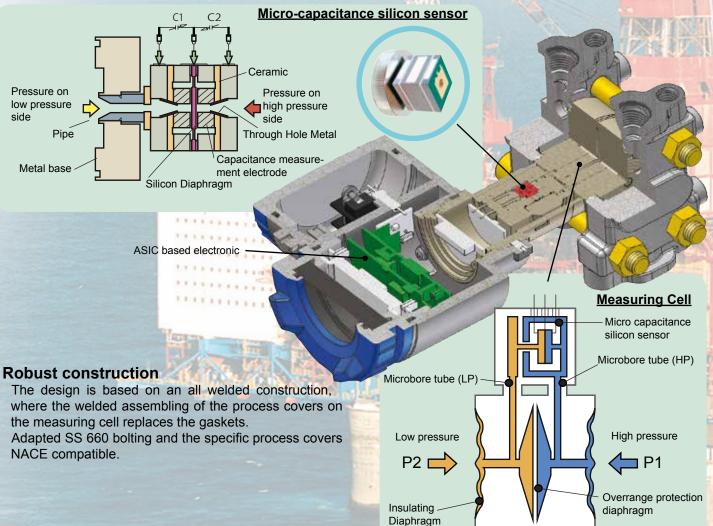
# Solutions for SUPER High Line Pressure for Flow and Differential Pressure applications :

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 130mbar 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.



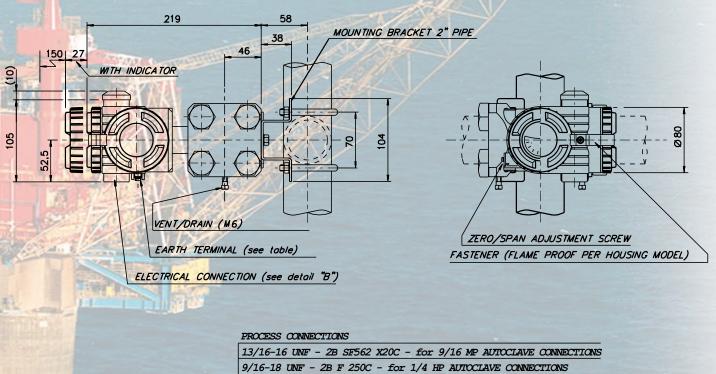
#### **Physical Specifications**

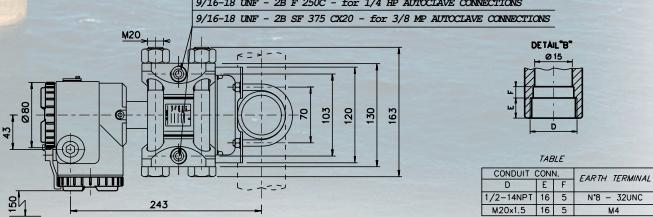
Process connections	Autoclave 9/16-18 UNF - 2B SF 375CX20, 9/16-18 UNF - 2B F 250C or 13/16-16UNF-2B SF 562CX20, others upon request
Wetted parts materials *Nota : see table (code symbols)	Measuring cell and body / Diaphragm Hastelloy C 276, Measuring cell and body Hastelloy C 276 / Duplex
Non wetted parts	Electronics housing : - Low copper die-cast aluminum alloy (std), finished with epoxy / polyurethane double coating - SS 316 Bolts / nuts : SS 660
Ambient temperature	-5 to 85°C
Process temperature	-5 to 120 °C
Remote seal designs	Available according customer specifications

## **Performance Specifications**

Accuracy rating : (including linearity, hysteresis and repeatability)	For spans greater than 1/10 of URL : ±0.1% of span
Stability	±0.1% of upper range limit (URL) for 3 years
Ambient temperature effect	Zero : ± (0.1+0.025 x URL / span) in % of span / 28°C Total : ± (0.125+0.025 x URL / span) in % of span / 28°C
Static pressure effect	Zero : ±0.1 % of URL / 10 MPa Span : 0 to -0.3 % of span / 10 MPa
Supply voltage effect	Less than 0.05% of calibrated span per 10V
RFI effect	Less than 0.2% of URL for the frequencies of 20 to 1000MHz 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 0.12kPa {1.2m bar} for a 10° tilt in any plane. No effect on span. This error can be corrected by adjusting Zero after installatrion.
Vibration effect	< ±0,25% of spans for spans greater than 1/10 of URL. Frequency 10 to 150Hz, acceleration 39,2m/sec <sup>2</sup>
Dielectric strength	500V AC, 50/60Hz 1 min, between circuit and earth.
Insulation resistance	More than 100MΩ at 500V DC
Turn-on time	4 seconds

### **Outline dimensions**

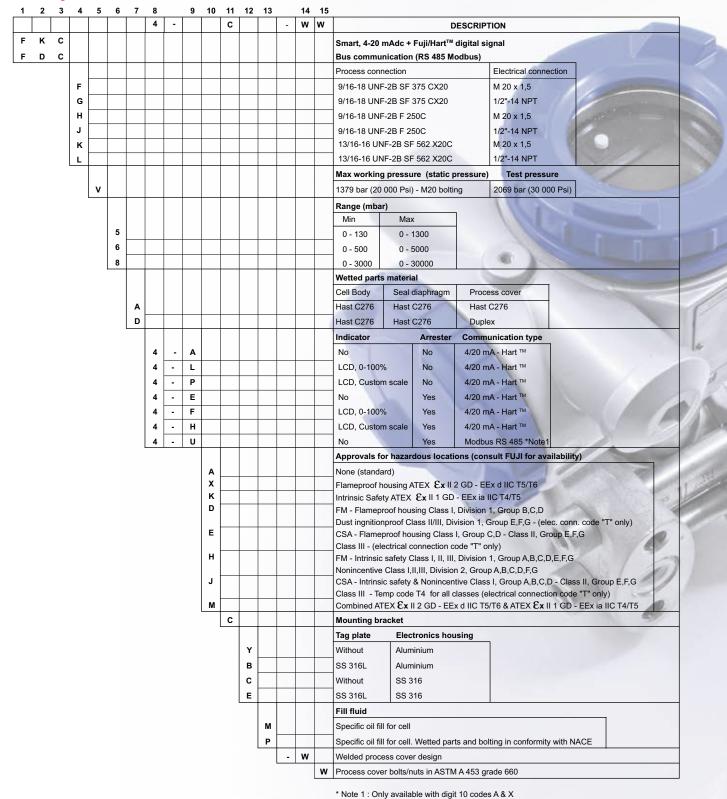




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### **Code Symbols**



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