

Long Term Stability, High Accuracy Pressure Transmitter

FCX-AII Series Ver.5



High Accuracy over the long term

Up to 0.04% accuracy

Unrivalled Long term stability : +/- 0.1%/ 10 years

DP Transmitters for Static Pressure up to 1035Bar (15 000psi)

evolution
of products



economic
added value

Ease of use

Configuration can be performed using 3 push buttons on the LCD indicator, hand held communicator or PC software.



Application Flexibility



By selecting from a large range of materials, we are able to customise the transmitter and remote seal. We temperature compensate the whole assembly to maintain the

highest level of performance. Selecting from 316SS, Hastelloy, Monel, Tantalum, Gold and Ceramic we can custom build a transmitter to solve your application problems.



Phasewatcher flowmeter from Framo Engineering

Asset Management

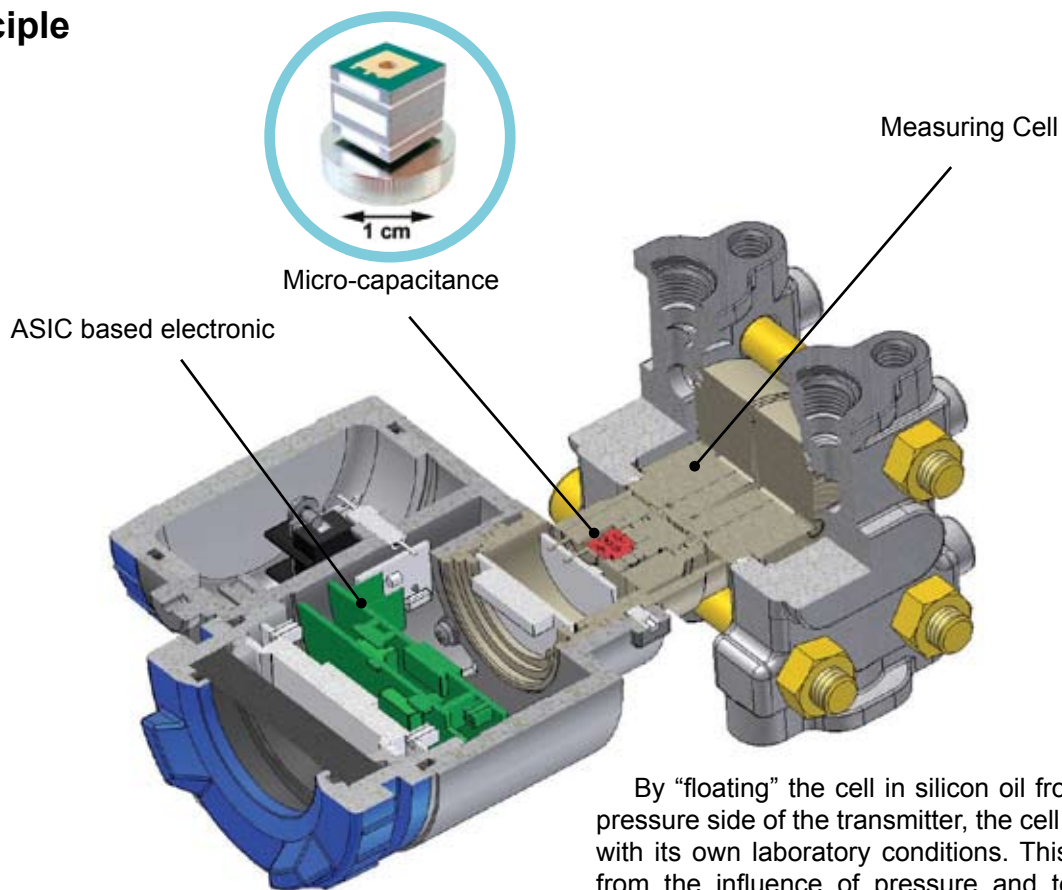
Enhanced configuration & maintenance tools are provided via PC software. This can be used to track calibration changes to each transmitter and store as data to your hard drive, or other storage device.



environmental
sustainability



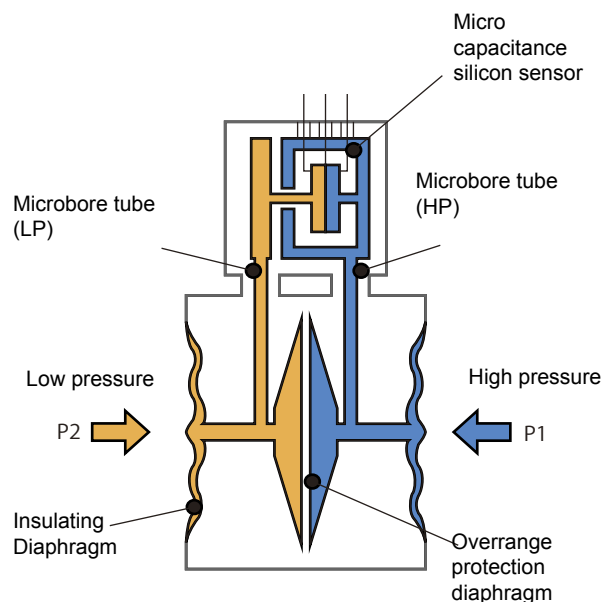
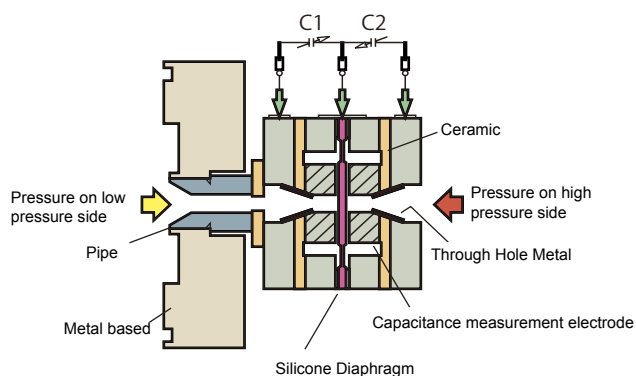
Principle



By “floating” the cell in silicon oil from the high pressure side of the transmitter, the cell is provided with its own laboratory conditions. This isolates it from the influence of pressure and temperature fluctuations. By using microbore technology the volume of silicone oil is minimised, which further reduces the influence of temperature on the pressure measurement.

Features

The micro machined silicon sensor is based on two capacitance values that change when differential pressure is applied. This technology minimises the influence of temperature fluctuations on the differential pressure measurement.



Keeping things “micro” reduces environmental influences.

The combination of micro machined silicon and “floating” cell technology gives us the ability to provide you with DP transmitters that can cope with static pressures of **up to 1035 Barg, 0.04% accuracy and 10-year stability.**

Specifications

Common Specifications

Diaphragm materials	SS316L, hastelloy-C, monel, tantalum, zirconium, titanium, double coated with gold and ceramic
Elevation/suppression	-100 to +100%URL
Span measuring range	100 to 1/100 URL
Liquid contacting temperature	-40 to 120°C
Ambient temperature	-40 to 85°C
Output signal / Allowable load resistance	DC 4 to 20mA / 600 Ohm
Supply voltage	DC 10.5 to 45V
Long-term stability	±0.1% URL/10 years
Explosion-proof specification	Flameproof, intrinsic safety type
Mounting method	50A pipe mounting, direct mounting
Weight	2.9Kg (standard unit)

Differential Pressure (flow) transmitter

Type	FKC (or FKD with remote seal)
Measuring span	1/6/32/130/500/3000/20000 kPa
Maximum static pressure	2/10/16/30/42 MPa
Measuring accuracy	Up to ±0.04% Standard: ±0.065%



Pressure (gauge) transmitter

Type	FKG, FKP or FKB with remote seal
Measuring span	130/500/3000/10000/50000 kPa
Maximum test pressure	1/1.5/9/15/75 MPa
Measuring accuracy	Up to ±0.04% Standard: ±0.065%



Absolute pressure transmitter

Type	FKA, FKH or FKM with remote seal
Measuring span	16/130/500/3000 kPa
Maximum test pressure	0.5/1.5/9 MPa
Measuring accuracy	Up to ±0.1% Standard: ±0.2%



Level transmitter

Type	FKE
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Fuji Electric

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