

FCX-AIV series

Pressure / Flow / Level / Density measurements

Recognized worldwide thanks to its reliability and robustness



MADE IN FRANCE

FCX-AIV series

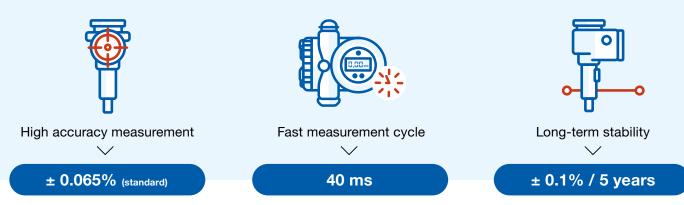
The FCX Series has been adopted in various process industries throughout the world and accumulated a great track record since its launch in 1989. The pursuit of reliability and ease of use culminated in our newest FCX-AIV Series. In addition to higher accuracy and quicker response time, FCX-AIV pressure transmitters are certified SIL2/SIL3.

- **Excellent reliability through high-accuracy measurement and long-term stability.**
- **☑** Best-in-class 40ms measurement cycle.
- Functional Safety Certification (IEC 61508 SIL2/SIL3).



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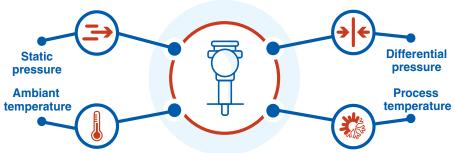
Lower your operating costs without compromise

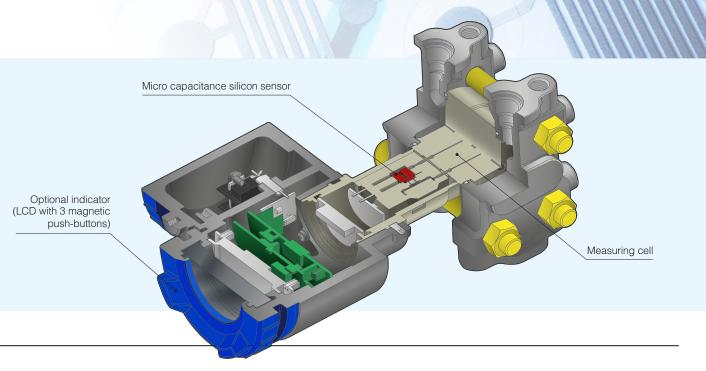


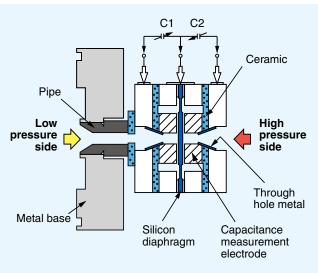
Accurate measurement in any environment



The performance of the processor and the optimization algorithm compensate the pressure measurement from the external variations in real time. Thanks to the unique 4D Gyration™ technology, choosing the FCX-AIV is the guarantee of precise and repeatable pressure measurements whatever the conditions of your process and your environment.







Micro Capacitance Silicon Sensor

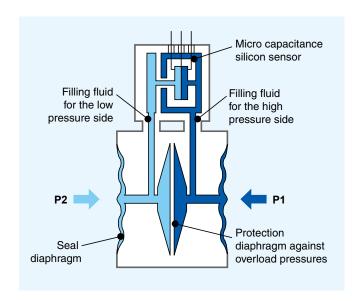
The monocrystal silicon sensor minimizes hysteresis, thereby achieving excellent stability and reproducibility.

Optimized structure enhances the output stability and long-term stability.



Advanced Floating Sensor

The advanced floating sensor protects transmitters against various severe environmental conditions, assuring stability. The downsized sensor enables easy handling while offering improved temperature effect and static pressure effect, and excessive overload pressure.

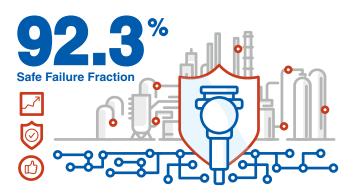




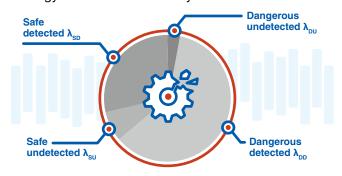
Reduce failure probability by integrating FCX-AIV in your safety loop



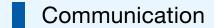
The SIL2/SIL3 certified FCX-AIV series, thanks to its premium SFF, is the preferred choice of I&C engineers when the design of a Safety Instrumented System is required.



The implementation of Safety Instrumented Systems in the process industry (IEC 61511) makes it possible to reduce the risks to a targeted and acceptable level and to organize the maintenance strategy to maintain this safety level.



Approvals



Hazardous area approvals			Conformity		
(Ex)	IECEX	CSP® US	CE CH		

HART communication protocol

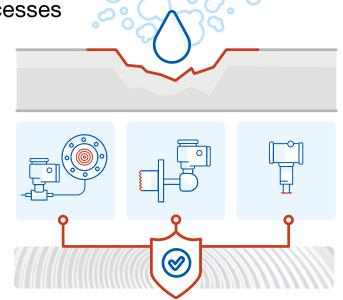
COMMUNICATION PROTOCOL

A large choice of specific materials to fit the most aggressive processes

In addition to SS 316L, various materials for wetted parts are available to fit the most versatile applications.

Material	Applications			
Hast C-276	Alkalis, organic acids, sea water			
Gold plating	Hydrogen			
Gold plating & Ceramic	Hydrogen mixed with hydrocarbons and/or H ₂ S			
Monel	Hydrofluoric, sulfuric and phosphoric acids, Non oxidizing salts			
Tantalum	Hydrochloric, hydrobromic and nitric acids			

Note: This list is not exhaustive. Other materials are available.







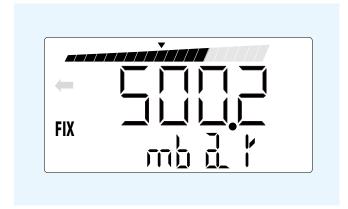
Improve the visibility of your process through user-friendly indicator

Digital Indicator

By adding a bargraph display, the output level is now intuitively understandable as an analog indicator.

The simultaneous display in engineering units allows an accurate reading of the measurement.

When an abnormality occurs, the displayed error code allows users to quickly understand and react to the siuation



Field Configuration

Using the magnetic stick allows all transmitter settings to be configured and adjusted without opening the indicator cover



Housing Selection

L-shape and T-shape housings are compatible with both vertical and horizontal pipings.









Specifications

Туре	FKC	FKG	FKA	FKE	FKB	FKD	FKP	FKH			
Appearance											
	Differential pressure	Gauge pressure	Absolute pressure	Hydrostatic level	Gauge pressure (remote seal)	Differential pressure (remote seal)	Pressure (direct mount)	Absolute pressure (direct mount)			
Case type	L type, T type										
Maximum span (kPa) [URL]	1 6 32 130 500 3000 20000	130 500 3000 10000 50000	16 130 500 3000	1 6 32 130 500 3000	130 500 3000 10000 50000	32 130 500 3000 20000	130 500 3000 10000	130 500 3000			
Weight in kg (No indicator)	3.1	2.9	2.9	2-19	4-18	9-19	1.7	1.7			
Accuracy rating	\pm 0.04% (option) / \pm 0.065% (standard) *Refer to the data sheets for details \pm 0.1% \pm 0.2%										
Diaphragm materials	SS 3 Haste Mo Tant SS 316L g Gold & cera	lloy-C nel alum old-plated	SS 316L Hastelloy-C Monel Tantalum	SS 316L Hastelloy-C Monel Titanium Zirconium SS 316L gold-plated			SS 316L Hastelloy-C				
Elevation/ Suppression	-100 to +100% URL										
Span setting range	1 to 1/100 URL										
Measuring cycle				40	ms						
Temperature range	Р	rocess side: -40 t	to +120°C (versio	n for higher temp	erature available)	Ambient tempe	rature: -40 to 85°	С			
Power supply voltage	10,5 to 45V DC										
Output signal / Allowable load resistance	4-20 mA / 250 Ω nominal										
Communication protocol		HART™ 7 protocol									
Damping time constant		Configurable between 0,04 to 32 s									
Zero/span adjustment	With the external adjustment screw, the three button indicator or the HART™ communication protocol										
Electrical conduit			N	120×1.5" / 1/2 -	14 NPT / Pg13	.5					
Options	Digital indicator, degreasing treatment, oxygen service, chlorine service, extra stainless steel tag plate										



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