Co-innovating tomorrow™

YOKOGAWA

Hygienic Adapter System
Fluidless Type Pressure Transmitter

EJAC60E

Bulletin 01C31Y01-01EN

Safe and Reliable measurements for the food industry

The hygienic pressure transmitter is designed specifically for the needs of the food and pharmaceutical industry. The transmitter design eliminates the use of filling fluid and incorporates a hygienically sealed adapter structure to ensure process integrity.

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Specifications

Span :	400 kPa, 1 MPa, 3 MPa
Process temperature :	-20 to 150°C (continuously) (-4 to 302°F)
Accuracy :	±0.15%

Safety and Security

- ○ No risk of fill fluid contamination to the process.
- ○ No risk of vacuum cavitation as in sensors with propylene glycol.
- ○ Robust diaphragm with 25 MPa burst pressure for all ranges.

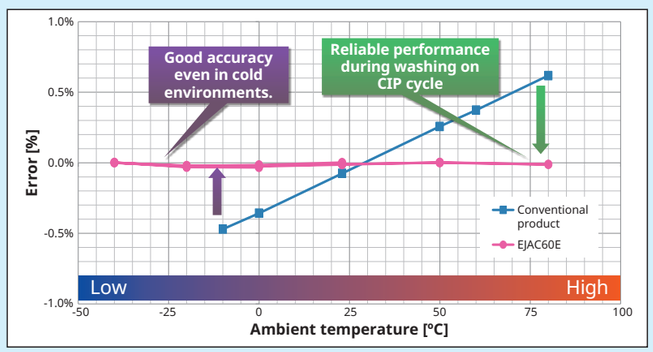
High functionality

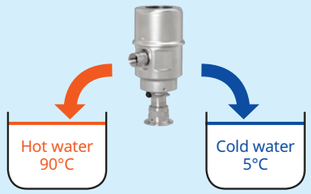
- ○ Range setting is possible. Minimum: 20 kPa.
- ○ Various display functions
- ○ Easy damping setting for tank level monitor
- ○ HART communication (Various settings possible via FieldMate) HART COMMUNICATION PROTOCOL

Reliable performance

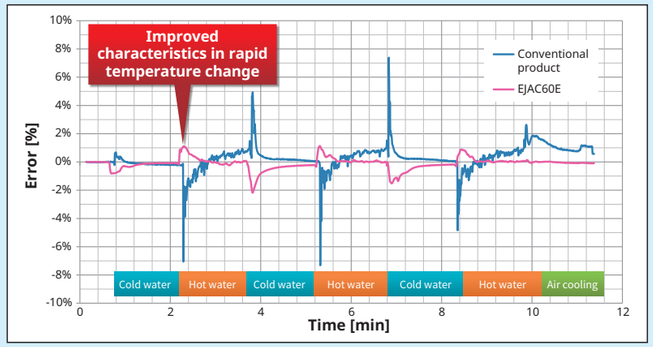
- ○ Good temperature characteristic
  - at high temperatures
  - at rapidly changing temperatures
- ○ Strong performance against steam. Continuous operation possible at process temperatures up to 150°C.

Characteristics for ambient temperature from -40 to 80°C





Characteristic when sensor is exposed alternately at 5 to 90°C

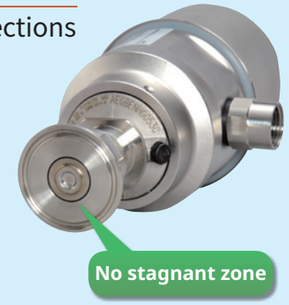


CIP : Cleaning In Place

Versatile connections

In-line types (DN40/50 or DN100) as standards

- Hygienically sealed adapters offer 16 different type of process connections
- Clamp (ISO25/38, 51, 63.5, 76.1, 101.6)
- Union (ISO38, 51, DIN25, 32, 40, 50)
- In-line Clamp (DN25, 40/50, 65/80, 100), Flush (DN40)

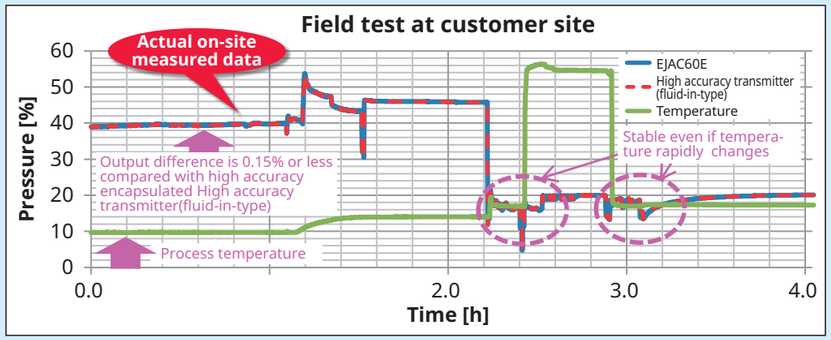


Real world operations

Comparative test with encapsulated high accuracy fluid-in-type transmitter

Minimized output error and stable output regardless of rapid temperature changes during CIP

Stable measurement with no filling oil structure



Hygienic Adapter System Fluidless Type Pressure Transmitter EJAC60E

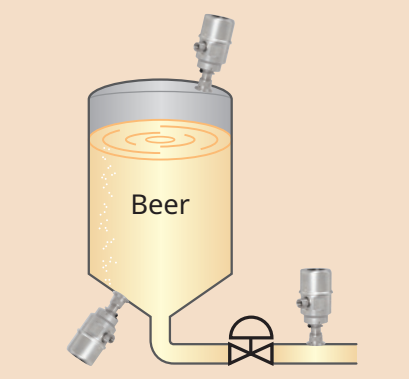
Specification

	EJAC60E (fluidless type)		
Max. Span	400 kPa (58 psi)	1 MPa (145 psi)	3 MPa (435 psi)
Min. Span	20 kPa	0.1 MPa	0.3 MPa
Pressure resistance (allowable max. pressure)	2 MPa (290 psi)	5 MPa (720 psi)	7.5 MPa (1080 psi)
Process temperature	-20 to 150°C (continuous) (-4 to 302°F)		
Accuracy	±0.15%		
Stability	±0.2% / year		
Wetted part material (diaphragm)	Duplex stainless steel		
Process connection	Total 16 types, Clamp: ISO25/38, 51, 63.5, 76.1, 101.6, DN40 Union: ISO38, 51, DIN25, 32, 40, 50 In-line clamp: DN25, 40/50, 65/80,100		
Hygienic standard	3-A Sanitary standard		

Typical Applications

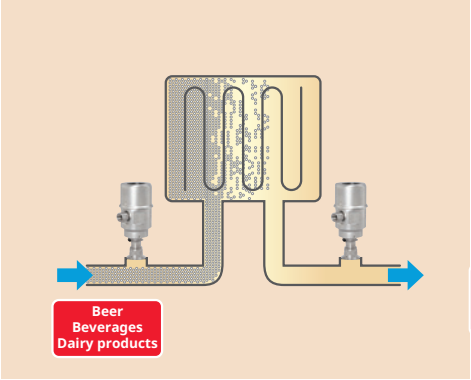
■ Fermentation/maturation tanks in breweries

Level/tank pressure monitor of fermentation tank



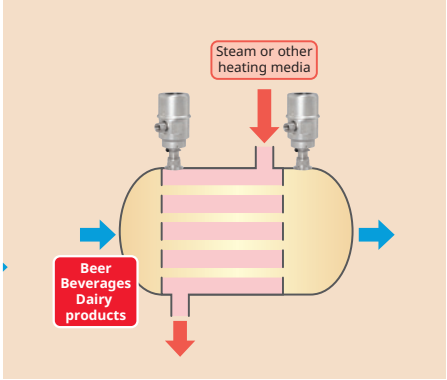
■ Filters for beer and beverages

Differential pressure monitoring of the filter.



■ Heat exchanger for beverages

Differential pressure control between process fluid and heating medium.



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