

SU75 Dry Type Sanitary Pressure Transmitter

Outline

This the safety sanitary pressure transmitter is not used enclosed liquid to transfer the pressure. This can be widely used, in Food, Phamaceuticals, Cosmetics and Bio-related industries etc.

Features

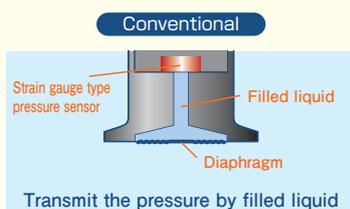
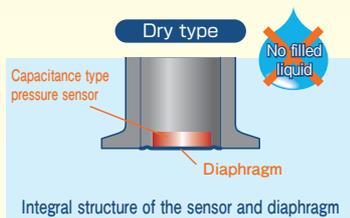
- No enclosed liquid structure
- Epoch-making very flat wetted parts structure
- No need to offset Zero point when installed with clamp.
- Available at 150°C without radiation fin.
- It corresponds to the low-pressure range from 50kPa.
- Small and lightweight
- Equivalent to IP67



Dry type = Ideal for Safety and Reliability

No enclosed liquid structure

"Dry type structure" which is not used enclosed liquid to transmit pressure change. It is the ideal safety structure suitable for the Food, Phamaceutical and Cosmetic manufacturing process without danger of leakage.



No need to Zero point offset when installed

No need Zero point adj. when installation by using capacitance type presser sensor which is insusceptible to strain when the clamp is tightened. It's also designed for ease of installation & calibration in the process field.



SUS316L flat wetted parts

High washability for very few asperities of wetted parts innovatively. The diaphragm suits for IDF 1S pipe inside diameter minimizing pocket that may cause contamination.



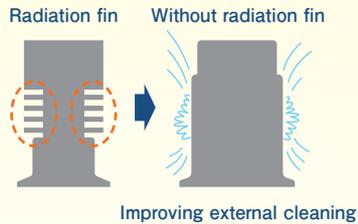
Surface roughness: Rz 0.7 (diaphragm, flange)

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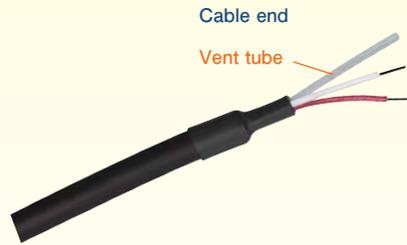
Available at 150°C without radiation fin

The structure without radiation fin produce less foreign matter and dirt adherence and excels washability from outside. Allowable temperature of wetted parts 150°C suits for high-temperature fluid and using in CIP cleaning.



Excellent waterproof structure

Waterproof performance is improved by vent tube taking atmospheric pressure inside of sensor. (Equivalent to IP67)



Compact, lightweight and space-saving

The compact size and lightweight sensor as compared to the conventional models is suitable for limited space applications.



Approx. **260 g**

Specifications

Item	Description			
Fluid	Air or liquid (Non-corrosive to the wetted material)			
Pressure range	-50~50kPa NEW	-0.1~0.1MPa NEW	—	-0.1~0.3MPa -0.1~0.5MPa
	0~50kPa NEW	0~0.1MPa NEW	0~0.2MPa NEW	0~0.3MPa 0~0.5MPa 0~1MPa
Allowable maximum pressure*1	-50~250kPa	-0.1~0.5MPa	-0.1~1MPa	-0.1~1.5MPa
Accuracy (Including linearity, hysteresis, short-term pressure repeatability)	±0.5%F.S.	±0.35%F.S.		±0.3%F.S.
Temperature coefficient (Zero, Span)	±0.08%F.S./°C		±0.05%F.S./°C	
	-5~70°C			
Wetted parts allowable temperature	-5~150°C*2 (No freezing or condensation)			
Ambient temperature	-5~70°C*2 (No freezing or condensation)			
Storage temperature	-10~80°C (No freezing or condensation)			
Ambient operating and storage humidity	85%RH or less (No freezing or condensation)			
Power source	12~36V DC*3			
Output	2 wire system: 4~20V DC			
Insulation resistance	100MΩmin. (50V DC between terminals and case)			
Withstand voltage	500V AC (1 minute)			
Protection	Equivalent to IP67: IEC standard (Except the vent tube tip)			
EMC immunity	Intends to meet CE marking			
Standard atmospheric pressure	Depends on vent tube*4			
Wetted parts material (Diaphragm, flange)	SUS316L Electrolytic polishing+Polishing+Passivation (Rz 0.7)			
Connection*5	1S, 1½S, 2S (Ferrule: IDF)			
Case material	SUS304, Fluorine rubber (Packings)			
Weight	Approx. 260g (Excluding cable)			

*1 : Please use it within the range of proofpressure of connected parts (clamp, nut, and gasket, etc.).

*2 : As for relationship between temperature of wetted parts and ambient temperature range, please refer to the graph on the next page.

*3 : As for relationship between supply voltage and load resistance, please refer to the graph on the next page.

*4 : Please do not get the vent tube clogged as there is a greater likelihood that it will contribute to inaccurate measurement.

Please avoid expose the vent tube to atmosphere in the place where there are a lot of darts and condensation.

If you want to extend the cable more than 5m, please release pressure at the end of tube in the waterproof junction box.

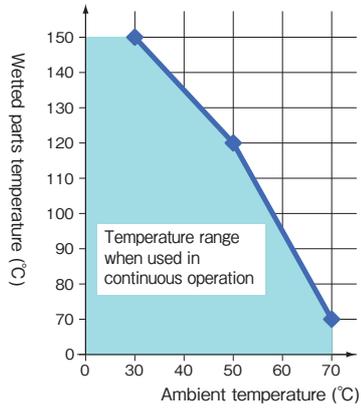
*5 : Please contact us for other connections.

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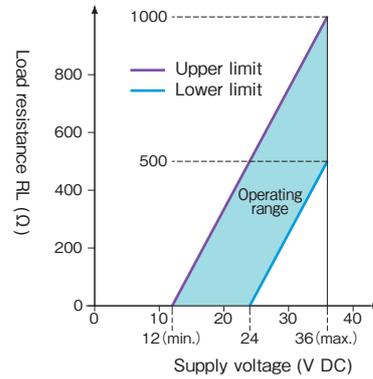
Specifications

Ambient temperature range and wetted parts temperature



20 hours usage is allowed under circumstance wetted parts material is exposed to 150°C & ambient temperature is 50°C.

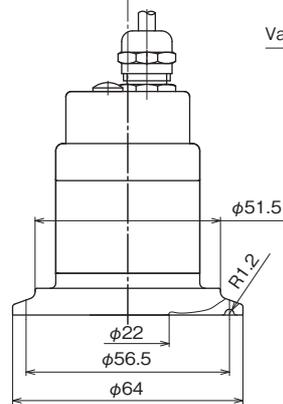
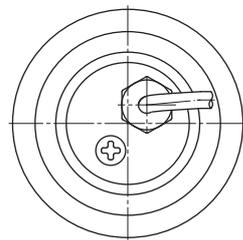
Load resistance



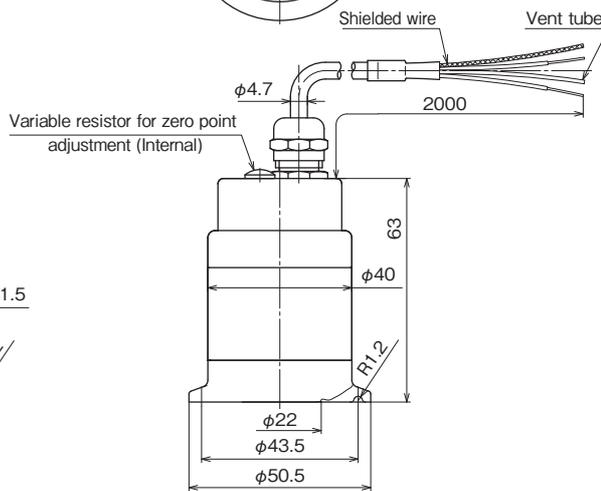
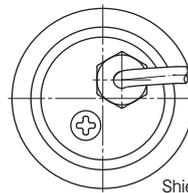
If you need more than 500Ω load resistance, is required supply voltage over 24V DC.

Dimensions

Unit : mm



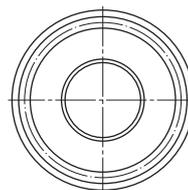
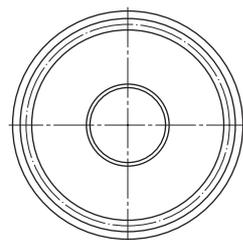
2S Ferrule (IDF)



1, 1½S Ferrule (IDF)

Wire colors for wiring

Power source (+)	Red
Power source (-)	White



Intends to meet RoHS compliance

