



Model SU17 Sanitary Pressure Transducer

OUTLINE

This is a pressure transducer with sanitary specifications, equipped with a stainless steel diaphragm and a semiconductor strain gauge for the pressure sensing portion. This pressure transducer has especially been designed for sanitary use, being able to use it for foods, medicines, cosmetics, and additionally, biotechnological industry.

FEATURE

- This pressure transducer demonstrates excellent dynamic pressure resistance. It also does excellent vibration resistance and impact resistance.
- This pressure transducer demonstrates excellent corrosion resistance and is appropriate for wider usage because of a metallic diaphragm.
- This pressure transducer is small and light because no amplifier is built in.
- This pressure transducer is appropriate for small apparatus and devices.

SPECIFICATION

Fluid:

Gas or Liquid

Operating condition:

Under the normal condition, where there is no inflammable gas or liquid which cause the ignition or explosion.

Connection type:

Ferrule type, nut type, male type, union type

Electric wire:

With 2m shielded cable

Size (Connection):

1S, 1 1/2S, 2S, 2 1/2S, 3S, G1 1/2B

Wetted parts material:

Diaphragm 316L st.st.

Socket 316 st.st., 316L st.st.

Pressure range:

0 ~ 0.3 → 0 ~ 5MPa (0 ~ 3 → 0 ~ 50kgf/cm²)

-0.1 ~ 0.2 → -0.1 ~ 2MPa

(-1 ~ 2 → -1 ~ 20kgf/cm²)

Pressure-proof sensing part:

2 ~ 10MPa (Depend on range)

Max. allowable pressure:

Proof-pressure of sensing parts or the 2 times of pressure range, whichever pressure is smaller.

Operating temperature:

-5 ~ 70°C (Ambient and connection)

Power source:

5V DC

Output:

35 ~ 95mV DC (Depend on sensor)

Input and output impedance:

3.5kΩ (typ.)

Zero point offset:

±6mV max.

Accuracy :

±1.0%F.S.

(±1.5 % F.S. for range 0.3MPa or less)

Temperature coefficient:

±0.1%F.S./°C (Zero)

±0.1%F.S./°C (Span)

(Below 0.3MPa ±0.15%F.S./°C)

Filled liquid:

Propyleneglycol (Enclosed liquid of compound pressure gauge is silicone oil)

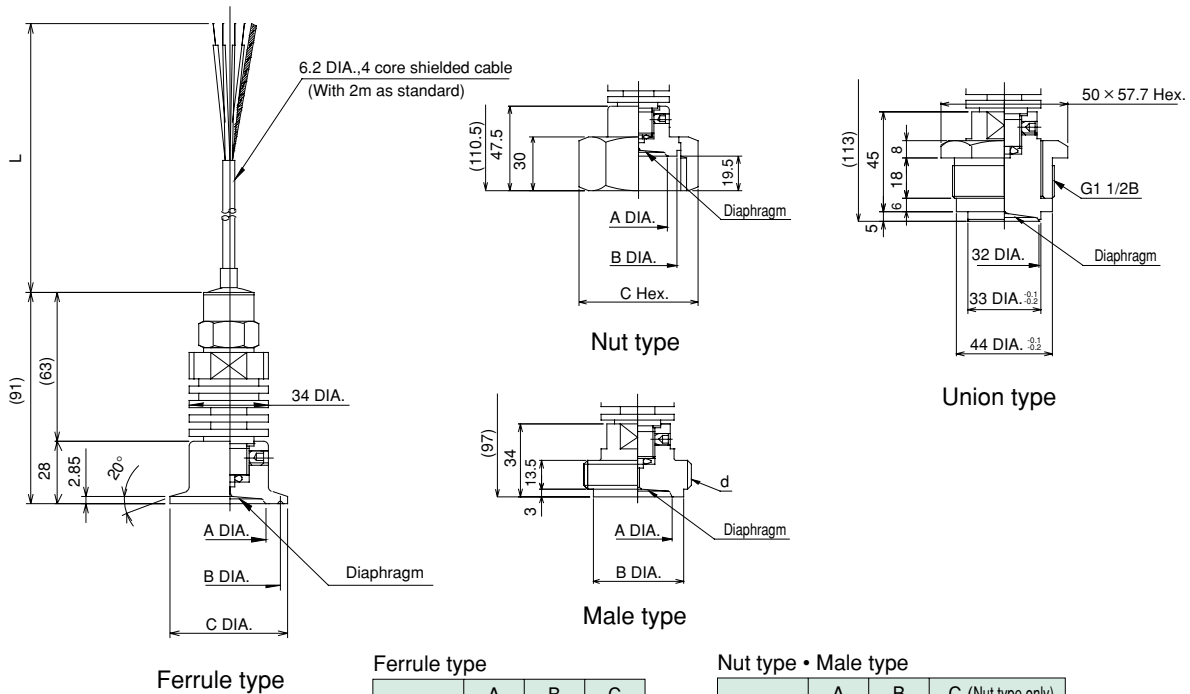
Case material:

316st.st. + epoxy resin

Construction:

Drip-proofII

DIMENSIONS



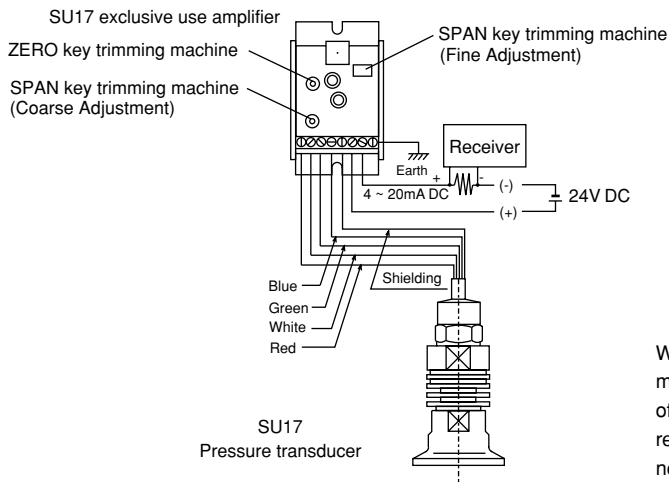
Ferrule type

	A	B	C
1S	32	43.5	50.5
1 1/2S	32	43.5	50.5
2S	47	56.5	64

Nut type • Male type

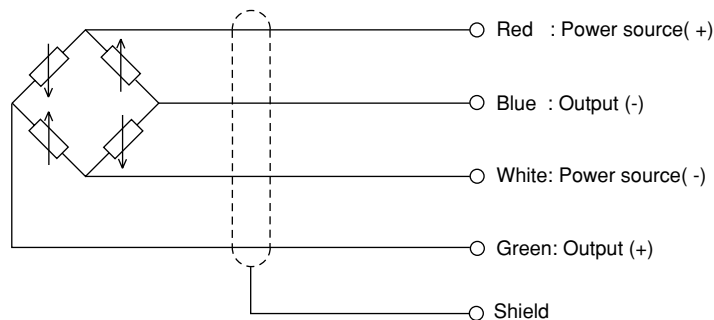
	A	B	C (Nut type only)
1 1/2S	32	42.7	56 × 64.7 Hex.
2S	47	56.2	71 × 82 Hex.

APPLICATION



With an exclusive amplifier, the output, 4mA to 20 mA DC, can be obtained. It is advisable to inform us of the combination of an amplifier and a display, if required, because 1 to 1 adjustment with a sensor is necessary.

WIRING



Type No. constitution

Please specify Type No., each specification and range, when ordering.

Note: For this Model, there is no applicable item for the figures X, but please specify X when ordering.

Sanitary Pressure Transducer

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Type No.

Selection spec.

Additional spec. (Option)

1 Connection type

1	Ferrule type
2	Nut type
3	Male type
4	Union type

2 Size (Connection)

2	1S
3	1 1/2S or G 1 1/2B
4	2S
5	2 1/2S
6	3S

3 Wetted parts material

3	316 st.st.
4	316L st.st.
5	316 st.st. Buff finished
6	316L st.st. Buff finished

7 Output

9	Other (35 ~ 95mV DC)
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6 Power source

D	5V DC
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5 Accuracy

0	±1.0%F.S. (0.3MPa or less ±1.5%F.S.)
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15 Document

0	Nil
1	Please specify your requirement Drawing one sheet, Instruction manual, Inspection procedure, Mill sheet, Test report

4 Pressure range (MPa)

(When ordering, please specify pressure range & unit.)

Connection type	Size	Pressure range (MPa)				Pressure-proof sensing part MPa	
		1 -0.1 ~ 0.3 ~ 0.5	-0.1 ~ 1 ~ 2	2 0 ~ 0.3 ~ 0.5	0 ~ 1 ~ 2		3 0 ~ 3.5
1 Ferrule type	1S		○	○	○	-	3.5
	1 1/2S		○	○	○	-	
	2S		○	○	○	-	
	2 1/2S		○	○	-	-	2
	3S		○	○	-	-	
2 Nut type	1 1/2S		○	○	○	○	10
	2S		○	○	○	○	7
	2 1/2S		○	○	-	-	5
	3S		○	○	-	-	
3 Male type	1 1/2S		○	○	○	○	10
	2S		○	○	○	○	7
	2 1/2S		○	○	-	-	5
	3S		○	○	-	-	
4 Union type	G1 1/2B		○	○	○	○	10

* Please provide the clamp, nut or gasket, etc., which is necessary for installing this transducer.