



Model KL71 Ceramic Pressure Transmitter

OUTLINE

This is a pressure transmitter as a sensing element made of ceramic as a functional material, demonstrating high pressure resistant, anticorrosive and low drift performance in the field of micropressure and low pressure.

FEATURE

- By applying ceramic elements, this pressure transmitter is provided with high corrosive resistance, and is applicable to the wider measuring range.
- This pressure transmitter is strong enough to the excessive pressure.
- Smaller changes due to years passed and smaller hysteresis result in excellent repeatability and reproductivity.

SPECIFICATION 1

Fluid:

Gas or Liquid

Operating condition:

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

Type:

Cable type (With 2m shielded cable)

Connection:

G1/4B (PF), G3/8B (PF), R1/4 (PT), R3/8 (PT)

Wetted parts material:

Element Alumina

O-ring NBR

Socket 316st.st.

Pressure range:

0 ~ 2kPa₀ ~ 0.2MPa (0 ~ 200mmH₂O₀ ~ 2kgf/cm²)

Max. allowable pressure:

0.05 ~ 1MPa (Depend on range)

Operating temperature:

-20 ~ 80g (But fluid should not be frozen)

Power source:

24V DC ±10%

Output :

4 ~ 20mA DC (2 wire system)

1 ~ 5V DC (3 wire system)

Load resistance:

500Ω max. (Current output)

10kΩ min. (Voltage output)

Transmission system:

2 or 3 wire system

Accuracy:

± 0.5 % F.S. or ± 1.0 % F.S.

(Depend on range)

Temperature coefficient:

±0.05 % F.S. / g below (Zero)

±0.05 % F.S. / g below (Span)

The humidity characteristic:

±0.5%F.S./95%RH (Zero)

±0.5%F.S./95%RH (Span)

Construction:

Indoor use

Weight:

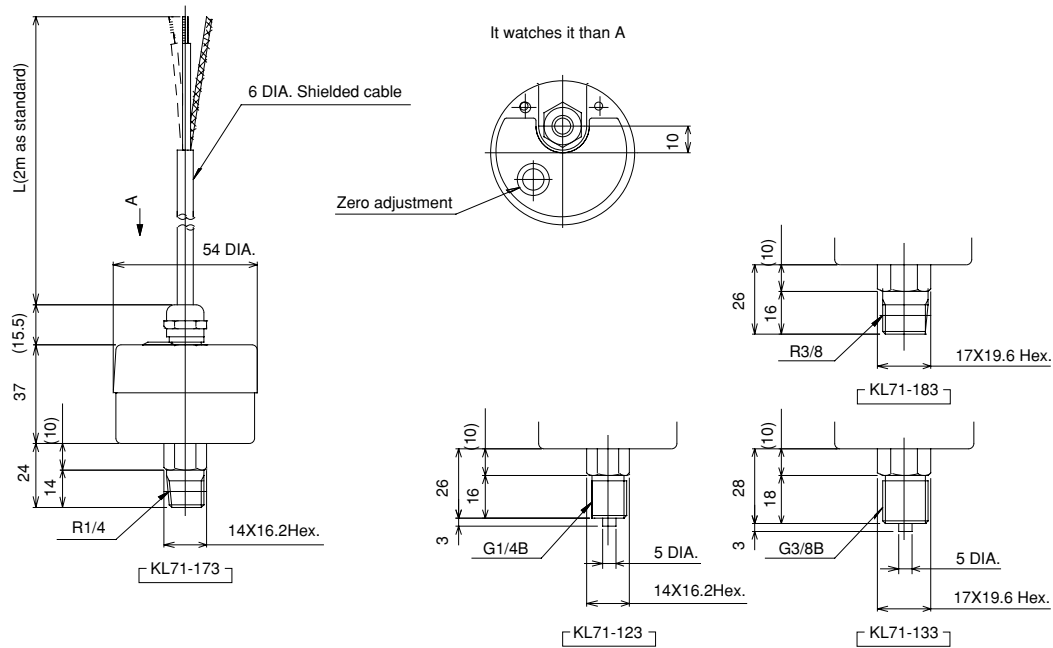
Approx. 200 g

SPECIFICATION 2

Max.allowable pressure·Accuracy:

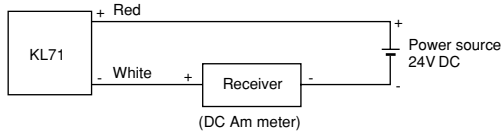
Pressure range	Max.allowable pressure	Accuracy
0~2kPa(0~200mmH ₂ O)	0.05MPa(5000mmH ₂ O)	±1%F.S.
0~5kPa(0~500mmH ₂ O) 0~10kPa(0~1000mmH ₂ O)	0.1MPa(1kgf/cm ²)	±0.5%F.S.
0~20kPa(0~2000mmH ₂ O) 0~0.05MPa(0~5000mmH ₂ O) 0~0.1MPa(0~1kgf/cm ²)	0.5MPa(5kgf/cm ²)	
0~0.2MPa(0~2kgf/cm ²)	1MPa(10kgf/cm ²)	

DIMENSIONS

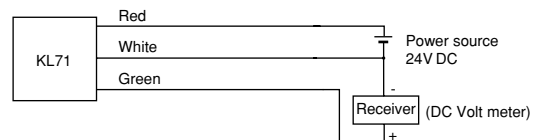


EXTERNAL CONNECTION EXAMPLE

2 wire system(4~20mA DC)Output



3 wire system(1~5V DC)Output



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.

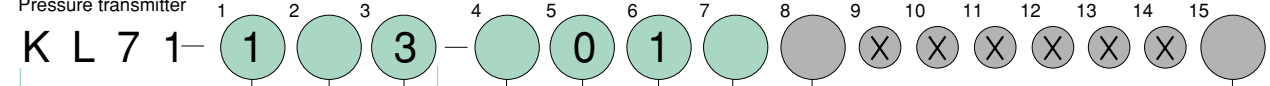
Ceramic Pressure transmitter

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Type No.

Selection spec.

Additional spec.(Option)



1 Type

1	Cable type (With 2m shielded cable)
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2 Connection

2	G1/4B
3	G3/8B
7	R1/4
8	R3/8

3 Wetted parts material

3	Element : Alumina O-ring : NBR Socket : 316st.st.
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4 Pressure range

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

1	0 ~ 2kPa	±1.0%F.S.
2	0 ~ 5, 10kPa	±0.5%F.S.
3	0 ~ 20kPa, 0 ~ 0.05, 0.1, 0.2MPa	±0.5%F.S.

8 Treatment

0	Nil
1	Use no oil
2	Use no water
3	Use no oil & water

7 Output

1	4 ~ 20mA DC (2 wire system)
8	1 ~ 5V DC (3 wire system)

6 Power source

1	24V DC ±10%
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5 Accuracy

0	Standard ±0.5%F.S. or ±1.0%F.S. (Depend on range)
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15 Document

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