



Model KH22 Differential Pressure Transmitter

OUTLINE

This differential pressure transmitter is equipped with a built-in sensor incorporated with a semiconductor strain gauge and an electronic circuit. Differential pressure is measured, converted into unified signals and transmitted.

FEATURES

- Because of evaporation type semiconductor strain gauge application to a sensor, durability and stability is assured.
- Corrosion resistance is assured because the liquid contacting portion is all over welding construction and stainless steel type material is used.
- Two sensors are attached to the pressure receiving portion and humidity resistance is taken into consideration by charging inert gas to the back pressure side.
- With a built-in electric dumping function and a linearization compensation circuit, the performance of this transmitter has been increased. Electric wave hindrance countermeasure is provided, expelling the effect of transceivers, etc.

SPECIFICATION 1

Fluid:

Gas, liquid or steam

Operating condition:

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

Mounting:

Panel mounting

Connection:

Rc 1/4 (PT female)

Wetted parts material :

Diaphragm 630 st.st. (17-4PH st.st.)

Socket 316 st.st.

Sensing part 316 st.st.

Differential pressure range:

0 ~ 0.3 → 0 ~ 1MPa (0 ~ 3 → 0 ~ 10kgf/cm²)

Max. operating pressure:

0.3 ~ 1MPa (3 ~ 10kgf/cm²)

(Depending on differential pressure range)

Withstand pressure:

0.6 ~ 2MPa (6 ~ 20kgf/cm²)

(Depending on differential pressure range)

Operating temperature:

-10 ~ 60°C (But fluid should not be frozen)

Power source:

24V DC ±10%

Output:

4 ~ 20mA DC

Load resistance:

500Ω max.

Transmission system:

2 wire system

Damping adjustment:

0.1 ~ 5 seconds (Time-constant)

Accuracy:

±1.0%F.S.

Temperature coefficient:

±0.075%F.S./°C (Zero)

±0.075%F.S./°C (Span)

Type of outlet:

Metal cable gland

Applicable cable out dia 4mm to 8mm.

Case material:

Aluminium alloy die casting (ADC12),

Aluminium alloy casting (AC7A)

Construction:

Rain - proof (Equivalent to IP43)

Weight:

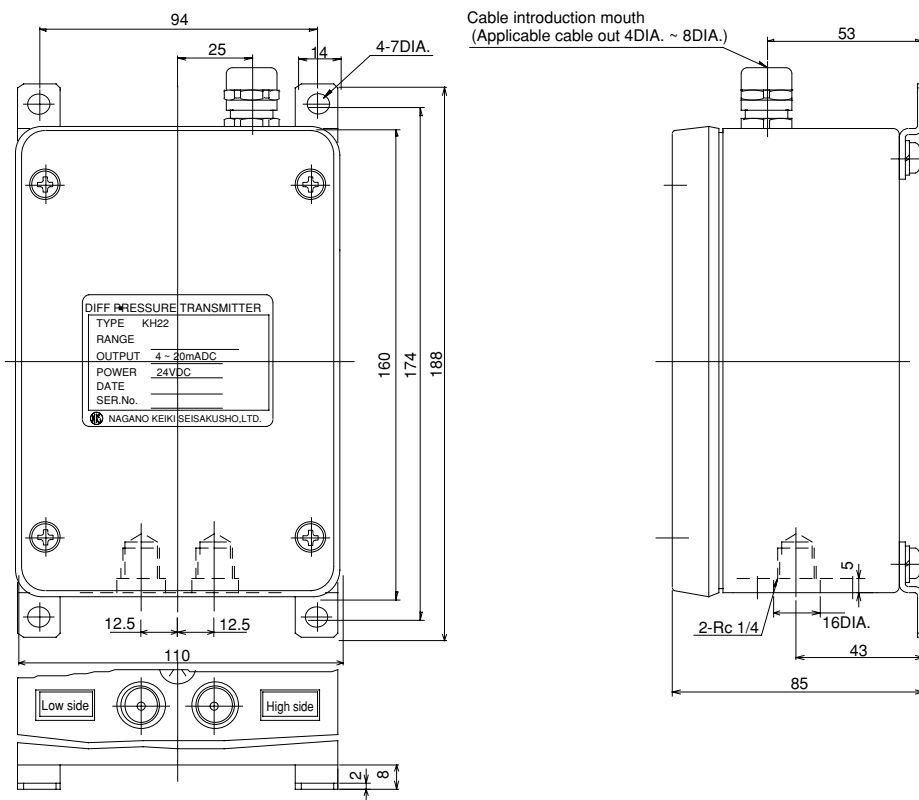
Approx. 2.2 kg

SPECIFICATION 2

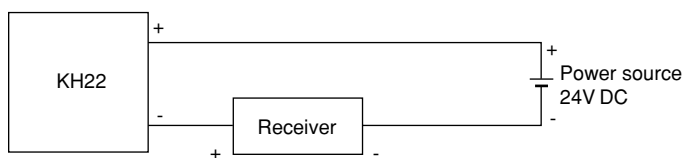
Max. operating pressure • withstand pressure:

Differential pressure range MPa (kgf/cm ²)	Max. operating pressure MPa (kgf/cm ²)	Withstand pressure MPa (kgf/cm ²)
0 ~ 0.3 (3)	0.3 (3)	0.6 (6)
0 ~ 0.5 (5)	0.5 (5)	1 (10)
0 ~ 0.7 (7)	0.7 (7)	1.4 (14)
0 ~ 1 (10)	1 (10)	2 (20)

DIMENSIONS



WIRING



Type No. constitution

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

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

Differential pressure transmitter

K H 2 2 -

Type No.

1 2

2 7

3 3

Selection spec.

4

5 6

6 1

7 1

Additional spec. (Option)

8

9 X

10 X

11 X

12 X

13 X

14 X

15

1 Mounting

2 Panel mounting

2 Connection

7 Rc 1/4

3 Wetted parts material

3 Diaphragm: 630 st.st. (17-4PH st.st.)
Socket: 316 st.st.
Sensing part: 316 st.st.

4 Differential pressure range (MPa)

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

1 0 ~ 0.3

2 0 ~ 0.5

3 0 ~ 0.7

4 0 ~ 1

6 Power source

1 24V DC ±10%

5 Accuracy

6 ±1.0%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)

15 Document

0 Nil

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