



Model KH63 Differential Pressure Transmitter

OUTLINE

This is a differential pressure transmitter which senses micro-pressure differential in air and other gases, converts it into electric signals and transmits it.

FEATURES

- The construction of this differential pressure transmitter is provided by the combination of a force magnifying mechanism and a semiconductor strain gauge and micro-pressure differential can be measured in high precision.
- The pressure ranges from negative pressure to positive pressure can be continuously measured.
- Output signals are based on the unified signals of industrial gauges (4 mA to 20 mA DC) and can be transmitted through the 2-wire electric current transmission method.
- All the gas-contacting portion material of the high-pressure side, including a diaphragm and a body, is made of stainless steel.

SPECIFICATION

Fluid :

Gas (Non corrosion gas only for low pressure side)

Operating condition:

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

Mounting:

Surface mounting or 2 B pipe mounting

Connection:

Rc 1/4 (PT)

Gas contact parts:

Diaphragm	316 st.st.
Body (High side)	316 st.st.
Case (Low side)	Aluminium alloy casting (AC7A)
O - ring	NBR

Differential pressure range:

0 ~ 0.05 → 0 ~ 2kPa (0 ~ 5 → 0 ~ 200mmH₂O)
 -0.05 ~ +0.05 → -1 ~ +1kPa
 (-5 ~ +5 → -100 ~ +100mmH₂O)

One side pressure tight:

300% of differential pressure range

Operating pressure range:

-10 ~ +10kPa (-1000 ~ +1000mmH₂O)

Operating temperature:

-10 ~ 60°C

Power source:

24V DC ±10%

Output:

4 ~ 20mA DC

Load resistance:

500Ω max.

Transmission system:

2 wire system

Accuracy:

±1 % F.S. or ±2 % F.S.

(Depending on range)

Temperature coefficient:

Zero	} ±0.05%F.S./°C (0 ~ 0.2, ±0.2kPa or over)
Span	
	±0.1%F.S./°C (0 ~ 0.1, ±0.1kPa)
	±0.2%F.S./°C (0 ~ 0.05, ±0.05kPa)

Outlet for electric wire:

Gland JIS 20b

Construction:

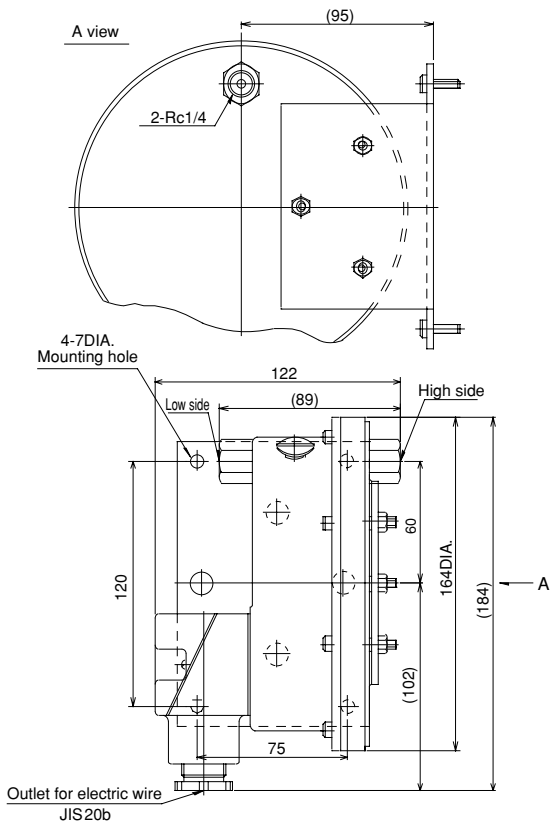
Indoor use

Weight:

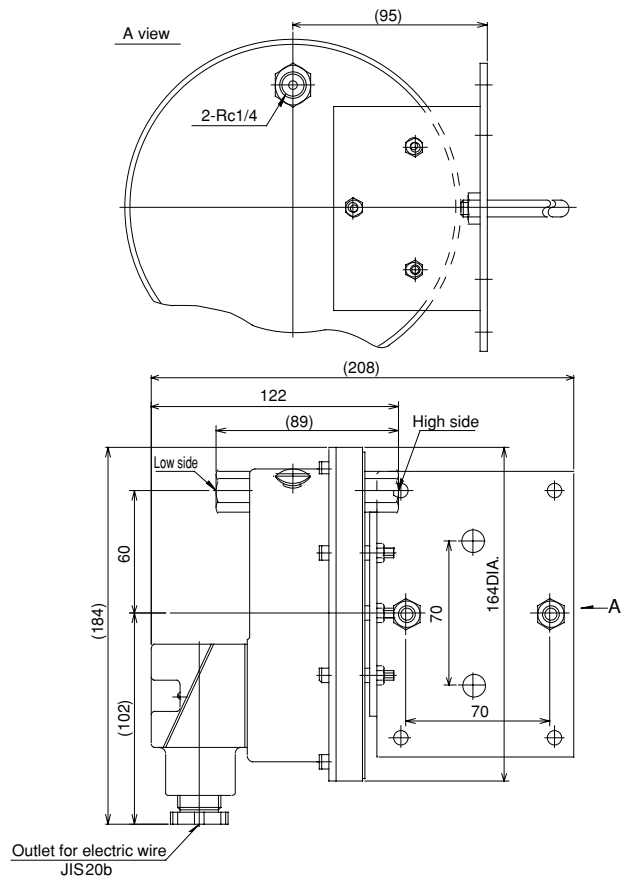
Approx. 3.4 kg

DIMENSION

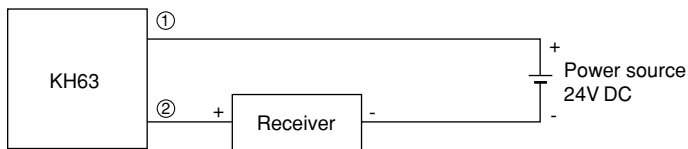
Surface mounting



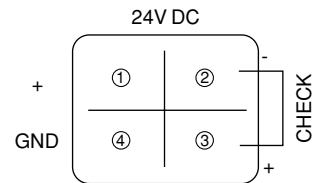
2B pipe mounting



WIRING



Terminal marking



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.

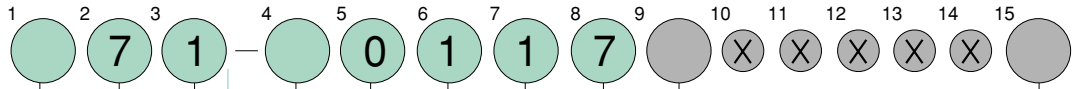
Differential pressure transmitter

K H 6 3

Type No.

Selection spec.

Additional spec. (Option)



1 Mounting

2	Surface maunting
3	2B pipe maunting

2 Connection

7	Rc 1/4
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3 Gas contact parts

1	Diaphragm: 316 st.st. Body (High side): 316 st.st. Case (Low side): AC7A O - ring: NBR
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4 Differential pressure range (kPa)

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

1	-0.05 ~ +0.05, -0.1 ~ +0.1, -0.2 ~ +0.2	±2%F.S.
2	-0.5 ~ +0.5, -1 ~ +1	±2%F.S.
3	0 ~ 0.05, 0.1, 0.2, 0.5, 1, 2	±1%F.S.

9 Treatment

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

8 Outlet for electric wire

7	JIS 20b
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7 Output

1	4 ~ 20mA DC (2 wire system)
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6 Power source

1	24V DC ±10%
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5 Accuracy

0	Standard ±1% F.S. or ±2% F.S. (Depending on differential pressure 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