# KH63 Differential Pressure Transmitter

## Overview

This differential pressure transmitter senses micro differential pressure of air and other gases, converting it into electric signals and transmits it.

## Features

- The differential pressure transmitter has a structure composed of force magnifying mechanism with the semiconductor strain gauge, allowing to measure with high accuracy.
- •Continuous pressure measurement from negative to positive pressure is possible.
- Output signal based on industrial unified signal (4 to 20mA DC) is transmitted through the 2 wire electric current transmission method.
- Pressure sensing parts material in contact with gas including diaphragm and body are all stainless steel.



## **Specifications**

## Media:

Gas (Non corrosion gas only for low pressure side)

#### Installation environment:

Install in location where no gases or liquids may exist that have the potential to become flammable or ignitable under normal operating condition

#### Type:

Wall mounting or 2B pipe mounting

#### Connection:

Rc 1/4

### Wetted parts:

Diaphragm SUS316
Body (High pressure side) SUS316
Case (Low pressure side) AC7A
O-ring NBR

## Differential pressure range:

0 to 0.05→0 to 2kPa -0.05 to +0.05→-1 to +1kPa

#### Proof pressure against single port:

300% of differential pressure range

#### Operating pressure range:

-10 to +10kPa

#### Operating temperature range:

-10 to 60°C (Non freezing or condensing)

#### Power source:

24V DC±10%

#### Output:

4 to 20mA DC

#### Load resistance:

 $500\Omega$  max.

## Transmission system:

2 wire system

#### Accuracy:

 $\pm 1\%$ F.S.,  $\pm 2\%$ F.S.

(Depends on differential pressure range)

#### Temperature coefficient:

(Zero)  $\searrow \pm 0.05\%$ F.S./°C

(0 to 0.2,  $\pm$ 0.2kPa range or higher)

(Span)  $^{/}\pm0.1\,\%$  F.S./°C (0 to 0.1,  $\pm0.1$ kPa range)

±0.2%F.S./°C (0 to 0.05, ±0.05kPa range)

#### Outlet for electric wire:

Gland JIS 20b

#### Protection:

Indoor use

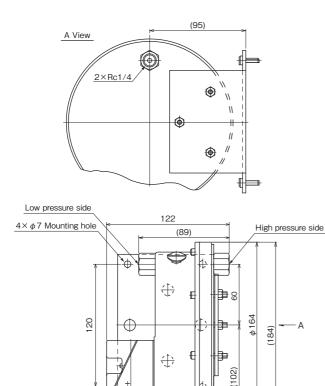
#### Weight:

Approx. 3.4kg

Dimensions

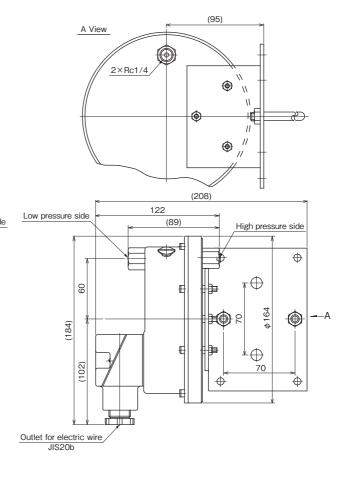
Unit: mm

## Wall mounting



75

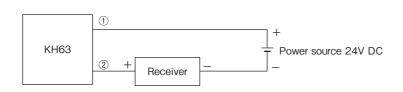
## 2B pipe mounting



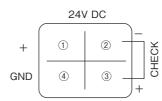
## Wiring

Outlet for electric wire

JIS20b



Terminal marking



## Model number configuration

Please specify the model, each requiring specification and differential pressure range to order.

