# KH22 Differential Pressure Transmitter

## Overview

This has a built-in electronic circuit and sensor that a semiconductor strain gauge is utilized. Differential pressure is measured for converting to 4 to 20mA DC standardized signal for transmission.

#### **Features**

- Because an evaporation type semiconductor strain gauge is used for the sensor, durability and stability is assured.
- •Because stainless steel-based material is used for the wetted parts with all-welded structure, corrosion resistance is assured.
- •Two sensors are attached to the pressure receiving part and humidity resistance is taken into consideration by charging inert gas to the back pressure side.
- •With electric dumping function and built-in linearization compensation circuit, the performance of transmitter is improved. Electric wave hindrance countermeasure is provided, expelling the effect of transceivers, etc.



#### Specifications 1

#### Media:

Gas, fluid, steam

#### 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

#### Mounting:

Panel mounting

#### Connection:

Rc 1/4

#### Wetted parts:

Diaphragm SUS630 (17-4PH)

Fitting SUS316 Sensing part SUS316 **Differential pressure range:** 

#### 0 to 0.3→0 to 1MPa

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#### Maximum operating pressure:

0.3 to 1MPa

(Depends on differential pressure range)

## Proof pressure:

0.6 to 2MPa

(Depends on differential pressure range)

#### 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

#### Damping adjustment:

0.1 to 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 electrical wire outlet:

Metal cable gland

Cable outer Dia. to conform  $\phi 4$  to  $\phi 8$ 

#### Case material:

ADC12, AC7A

#### Enclosure:

Rain-proof type (Equivalent to IP43)

#### Weight:

Approx. 2.2kg

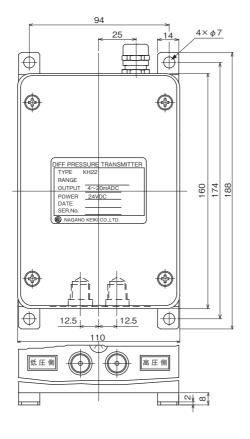
# Specifications2

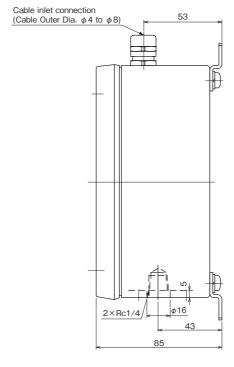
#### Maximum operating pressure, proof pressure:

Differential pressure range MPa	Maximum operating pressure MPa	Proof pressure MPa
0 to 0.3	0.3	0.6
0 to 0.5	0.5	1
0 to 0.7	0.7	1.4
0 to 1	1	2

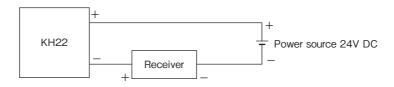
# Dimensions

Unit: mm





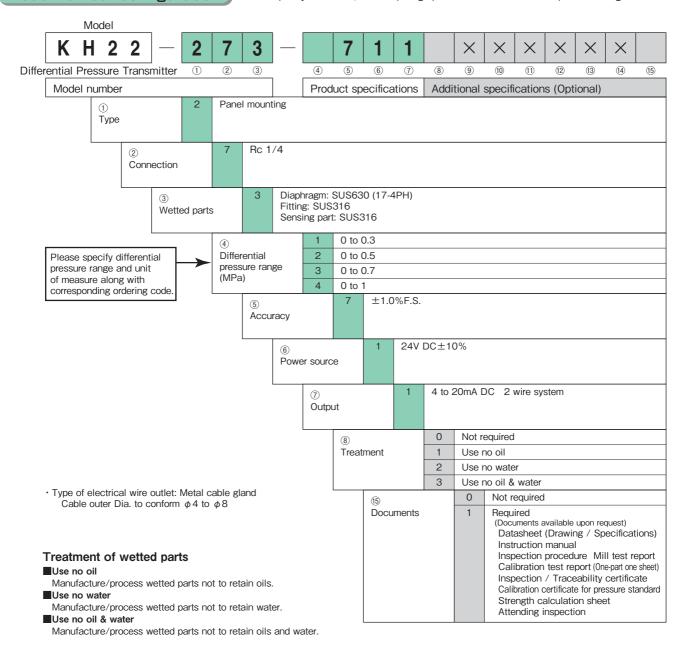
# Wiring



# Differential Pressure Transmitter

## Model number configuration

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



<sup>\*</sup>Specify code "X" to refer N/A