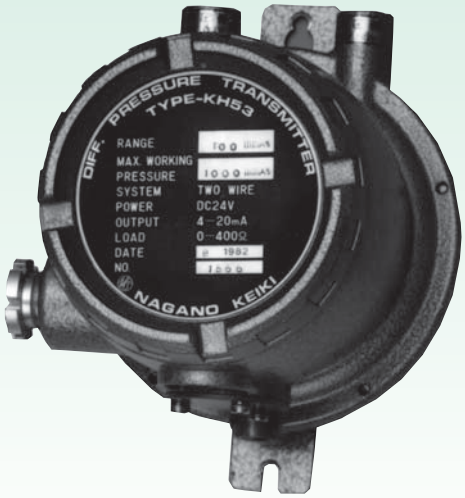
# KH53 Differential Pressure Transmitter

## Overview

**This differential pressure transmitter is designed for detecting micro differential pressure such as air or non-corrosive gas, etc. converting it into an electric signal for transmission. In addition, it is composed of a slack diaphragm, a range spring and a conversion circuit with differential inductance detector, therefore the displacement corresponding to the differential pressure caused on the diaphragm is converted into the quantity of electricity. It can be use for monitoring clogged filter, air duct flow speed and air flow in combination with pitot tube, and blower control application.**




## Features

- **Compact and economical**
- **By removing the front screw type lid, zero and pan adjustment can be easily performed.**
- **The test terminal is mounted, allowing to test without opening the output circuit.**
- **Output signal is an international standard 4 to 20mA DC signal, allowing to easily combine with related equipment.**

## Specifications

**Media:**
Air or non-corrosive gas

**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:**
Surface mounting

**Connection:**
Rc1/4

**Wetted parts:**
Diaphragm NBR
Body AC2A

**Differential pressure range:**
0 to 0.2→0 to 1kPa

**Operating pressure range:**
0 to 10kPa

**Proof pressure against single port:**
10kPa

**Operating temperature range:**
0 to 60℃

**Power source:**
24V DC±10%

**Output:**
4 to 20mA DC

**Load resistance:**
400Ω max.

**Transmission system:**
2 wire system

**Accuracy:**
±3%F.S. or ±5%F.S.
(Depends on differential pressure range)

**Temperature coefficient:**
±0.2%F.S./℃ TYP. (Zero)
±0.2%F.S./℃ TYP. (Span)

**Outlet for electric wire:**
Thin steel conduit tube thread "C19"

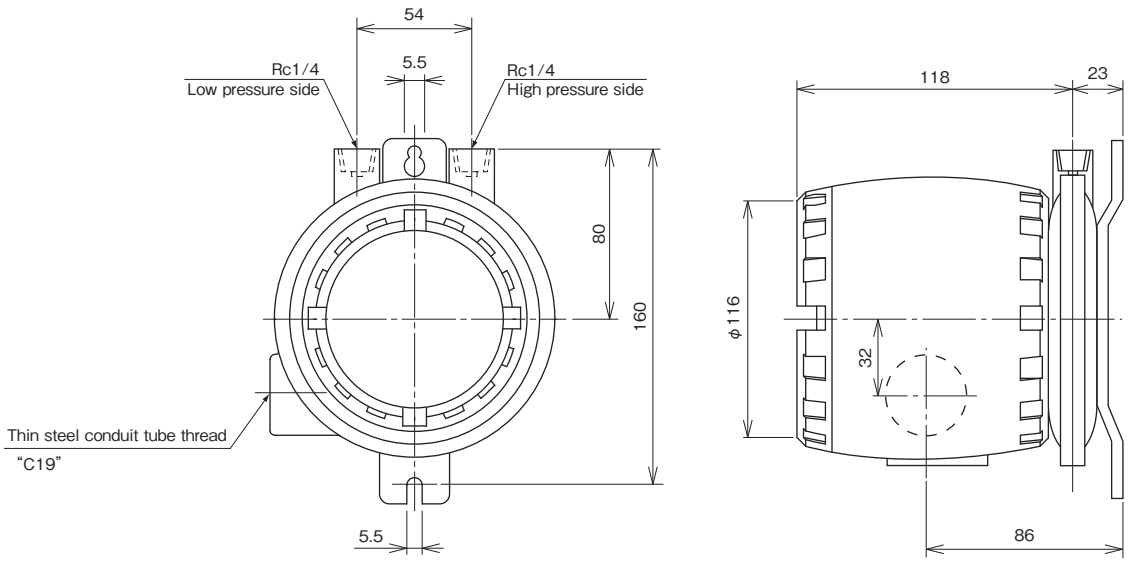
**Case material, finishing:**
ADC10・Gray crystal paint

**Protection:**
Splash-proof (IP54)

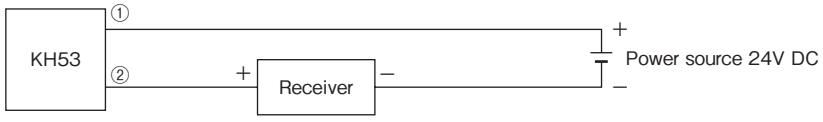
**Weight:**
Approx. 1.8kg

## Dimensions

Unit: mm




## Wiring



## Model number configuration

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

Model

| K H 5 3 | — | 1 | 7 | 1 | — | | 0 | 1 | 1 | F | | × | × | × | × | × | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Differential Pressure Transmitter | | ① | ② | ③ | | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ | ⑪ | ⑫ | ⑬ | ⑭ | ⑮ |
| Model number | | | | | | Product specifications | | | | | Additional specifications (Optional) | | | | | | |

| | | |
|---|---|---|
| ① Type | 1 | Surface mounting |
| ② Connection | 7 | Rc 1/4 |
| ③ Gas parts material | 1 | Diaphragm: NBR<br>Body: AC2A |
| ④ Differential pressure range | 1 | 0 to 0.2, 0.3, 0.4kPa Accuracy: ±5%F.S. |
| | 2 | 0 to 0.5, 0.6, 1kPa Accuracy: ±5%F.S. |
| ⑤ Accuracy | 0 | Standard ±3%F.S. 0 to 0.5, 0.6, 1kPa<br>±5%F.S. 0 to 0.2, 0.3, 0.4kPa |
| ⑥ Power source | 1 | 24V DC±10% |
| ⑦ Output | 1 | 4 to 20mA DC 2 wire system |
| ⑧ Outlet for electric wire | F | Thin steel conduit tube thread "C19" |
| ⑨ Treatment | 0 | Not required |
| | 1 | Use no oil |
| | 2 | Use no water |
| | 3 | Use no oil & water |
| ⑩ Other additional spec. | 0 | Not required |
| | 1 | Required<br>Case finish |
| ⑮ Documents | 0 | Not required |
| | 1 | Required<br>(Documents available upon request)<br>Datasheet (Drawing / Specifications)<br>Instruction manual<br>Inspection procedure Mill test report<br>Calibration test report (One-part one sheet)<br>Inspection / Traceability certificate<br>Attending inspection |

Please specify differential pressure range and unit of measure along with corresponding ordering code.

### Treatment of wetted parts

■**Use no oil**
Manufacture/process wetted parts not to retain oils.

■**Use no water**
Manufacture/process wetted parts not to retain water.

■**Use no oil & water**
Manufacture/process wetted parts not to retain oils and water.

＊Specify code "X" to refer N/A