

SU10

Flush Diaphragm Pressure Transmitter

Overview

This pressure transmitter with flush diaphragm that conforms to sanitary specification, utilizing stainless steel diaphragm and semiconductor strain gauge for the pressure sensing part. Particularly, this pressure transmitter is designed and manufactured based on sanitary considerations, and has been widely used in food, pharmaceuticals, cosmetics, and further bio-related fields.

Features

- Small flush diaphragm tip is flat design eliminating pocket after installing into process.
- Featured Chemical Vapor-Deposited Semiconductor Strain Gauge contributes for excellent dynamic pressure durability. It has also excellency in vibration resistance and shock resistance.
- Metal diaphragm contributes for excellent corrosion resistance which can be used for a wide variety of applications.
- Suitable for liquid chromatography.



Specifications

Media:

Gas, liquid

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

Electrical connections:

Connector type (With 2m shield cable)

Connection:

G1/2B

Wetted parts:

Diaphragm SUS316L
Fitting SUS316

Pressure range:

0 to 10→0 to 50MPa

Allowable maximum pressure:

200% of pressure range
(1.5 times for the 35, 50MPa range)

Operating temperature:

-5 to 70°C (Ambient or fittings)

Power source:

24V DC ±10%

Output:

4 to 20mA DC (2 wire system)
1 to 5V DC (3 wire system)

Load resistance:

500Ω max. (For current output)
10kΩ min. (For voltage output)

Transmission system:

2 wire system or 3 wire system

Accuracy:

±1.0%F.S.
(±1.5%F.S. for 50MPa range)

Temperature coefficient:

±0.1%F.S./°C
(±1.5%F.S./°C for 50MPa range)

Filled liquid:

Silicone oil

Case material:

A2017, ADC12

Enclosure:

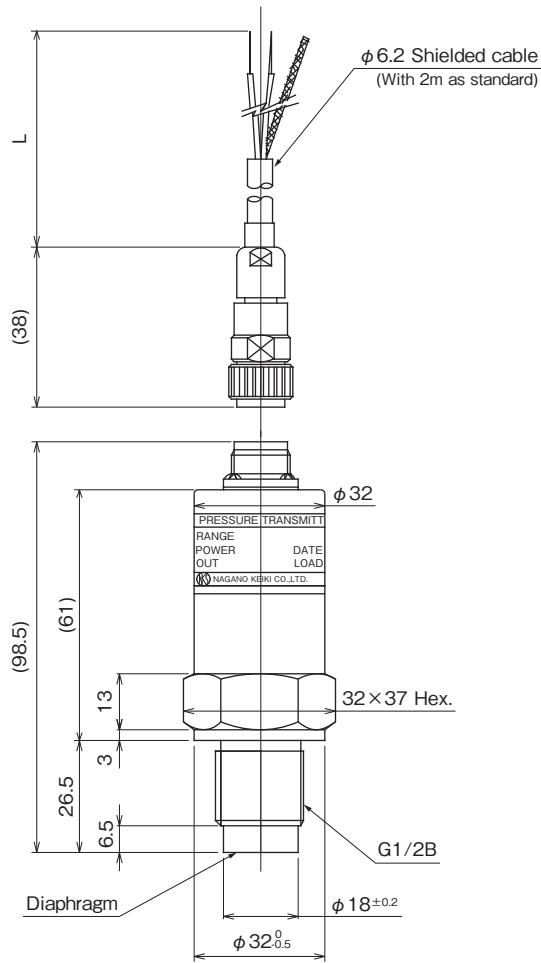
Indoor use

SU10

Flash Diaphragm Pressure Transmitter

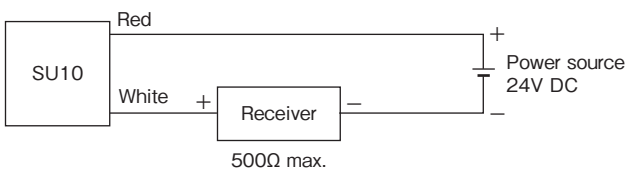
Unit: mm

Dimensions

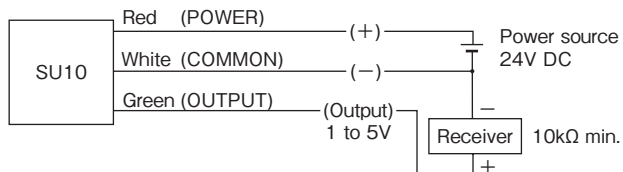


Wiring diagram

2 wire system

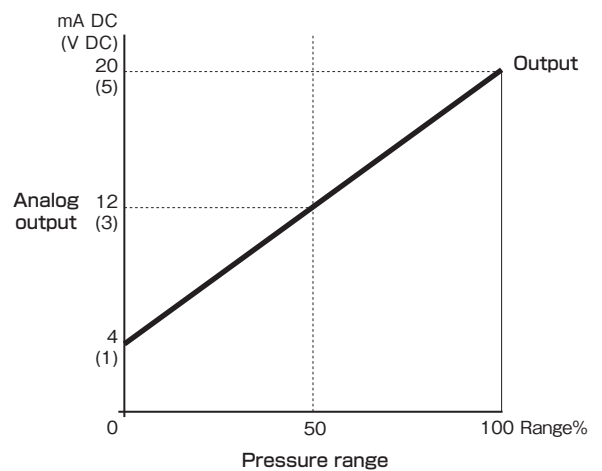


3 wire system



Output characteristic

When 4 to 20mA DC (1 to 5V DC)



It is a linear of 4 to 20mA DC (1 to 5V DC) to the range.

