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:

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

Transmission system:

2 wire system or 3 wire system

Accuracy:

 $\pm 1.0\%$ F.S. ($\pm 1.5\%$ F.S. for 50MPa range)

Temperature coefficient:

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

Filled liquid:

Silicone oil Case material:

ase material.

A2017, ADC12

Enclosure:

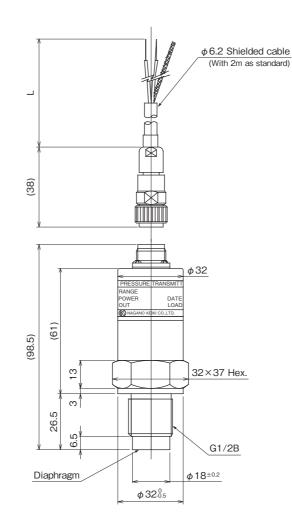
Indoor use

I NAGANO KEIKI

SU10 Flash Diaphragm Pressure Transmitter

Dimensions

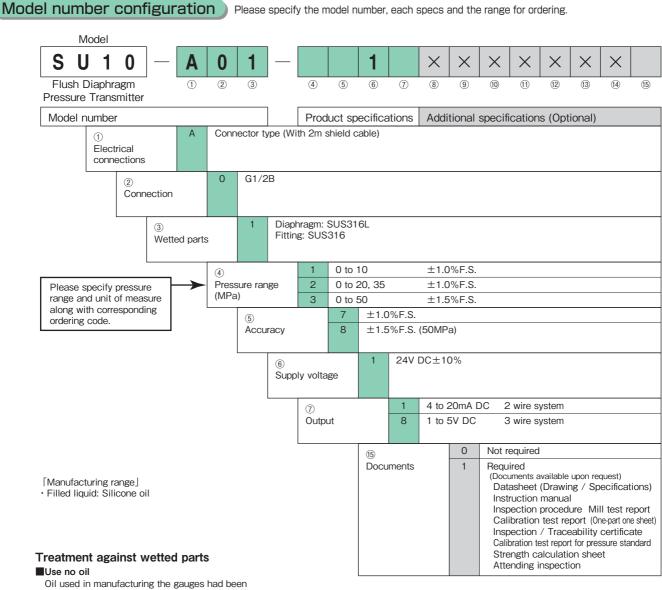
Unit: mm



Wiring diagram Output characteristic When 4 to 20mA DC (1 to 5V DC) 2 wire system mA DC Red (V DC) 20 Output Power source SU10 (5) 24V DC White Receiver 500Ω max. Analog 12 output (3) 3 wire system 4 Red (POWER) (1) Power source 24V DC White (COMMON) SU10 (-)0 100 Range% Green (OUTPUT) 50 (Output) 1 to 5V Pressure range Receiver 10kΩ min. + It is a linear of 4 to 20mA DC (1 to 5V DC) to the range.

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SU10 Flash Diaphragm Pressure Transmitter



flushed out & no oil residue remained inside its wetted parts.

Use no water

Water used in manufacturing the gauges had been

flushed out & no water residue remained inside its wetted parts.

Use no oil & water

Oil/Water used in manufacturing the gauges had been

flushed out & no oil/water residue remained inside its wetted parts.

 \ast Parts required for installation, such as nuts, gaskets, etc., are to be prepared by the user.

*Specify code "X" to refer N/A