Cat.No. B02-05-M

KL12 Miniaturized Differential Pressure Transmitter

For gas measurement (Featuring silicone diaphragm)

Overview

Incorporated miniaturized silicone diaphragm precisely fabricated by micro machining can detect fine differential pressure to convert into analog output signal.

Features

- •This transmitter can detect fine differential pressures between 50Pa to 2 kPa with high sensitivity.
- •Highly durable construction for each high pressure and low pressure port withstanding 50kPa maximum pressure.
- Miniaturized sensing part designed with silicon diaphragm having less moving parts contributes for excellent vibration proof and shock resistance.
- Easy to handle small and lightweight pressure transmitter.



Specifications

Media:

Gas (Dry air and nitrogen gas) No water or dusts should be contained.

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:

Surface mounting

Pressure connection:

 ϕ 5.5 Barb fitting

Wetted parts: Glass, Aluminum, Silicon, PBT, NBR (Nitrile rubber)

Differential pressure range:

0 to 50Pa → 20kPa ±50Pa → ±10kPa

- Allowable maximum pressure: Proof pressure for single port 50kPa Proof pressure for double ports 50kPa
- Operating temperature: -10 to 60°C (Non-freezing or condensing)

Operating humidity limits: 30 to 90%RH (No condensation)

Response time: Less than 200 ms Power source: 14 to 27V DC

Output: 4 to 20mA DC

Load resistance: $500\,\Omega$ maximum (With current output at 24V DC power source)

Transmission method: 2 wire system

Accuracy: ±2.0%F.S. (23±2°C)

Temperature coefficient: $\pm 0.2\%$ F.S./°C (Zero) 0 to 0.3% F.S./°C (Span)

Position effects: Smaller than 1Pa/45°

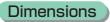
Case material/finish: PBT resin

Construction: Indoor use (IP50)

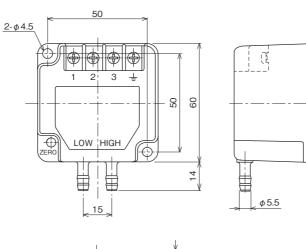
Weight: Approx. 80g

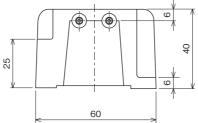
NAGANO KEIKI

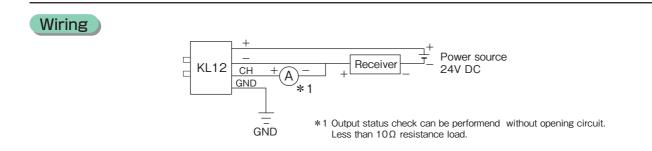
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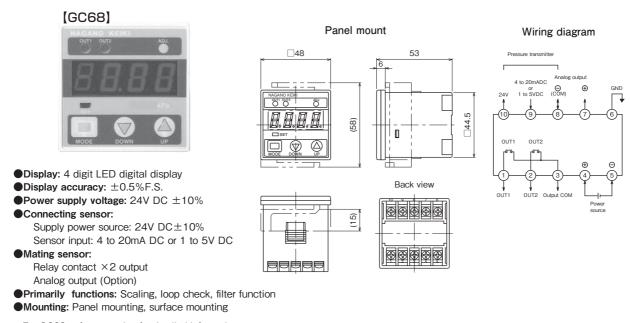






Application

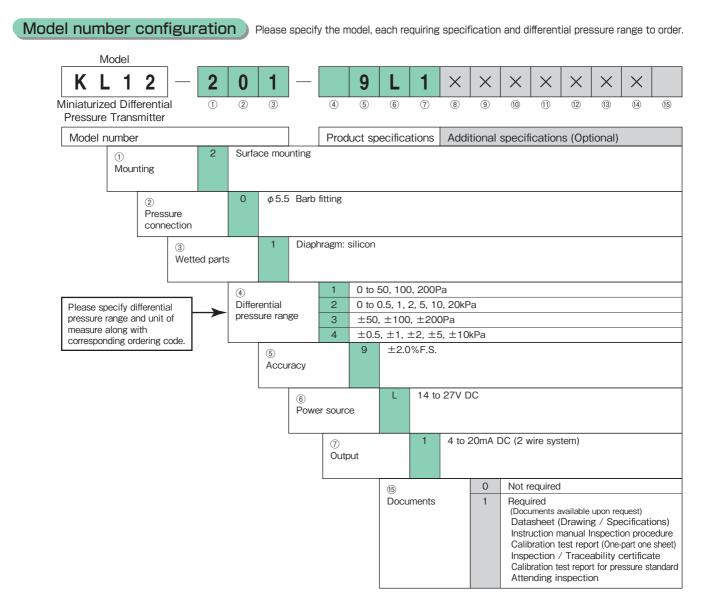
Digital display and various functions are available in one compact digital pressure gauge.



 \ast For GC68, refer to catalog for detailed information.

KL12

Miniaturized Differential Pressure Transmitter



* Specify code "X" to refer N/A

Warning

The product can't be used for corrosive, flammable gas and fluids measurements.