



# KL12

## Differential Pressure Range

### OUTLINE

This is a compact micro differential pressure transmitter, in which a small silicon diaphragm processed through a high precision method, using micro-machining technology, is installed, and it measures micro differential pressure.

### FEATURES

- This transmitter can sense a micro differential pressure between 50 Pa to 20 kPa with high sensitivity.
- High-durable construction for both the high pressure side and low pressure side, making it capable of receiving one side pressure of up to 50 kPa, is adopted.
- This transmitter demonstrates excellent vibration durability and impact durability because simple construction with a few moving parts and being small in size has been applied to this sensor.
- This transmitter is small in size and light in weight and, additionally, easy to handle.

### SPECIFICATION

#### Fluid:

Air or inert gas

#### Operating condition:

Under the normal condition, where there is no inflammable gas or liquid which cause the ignition or explosion.

#### Mounting:

Surface mounting

#### Process connection:

5.5 DIA. Barb socket

#### Gas contact parts:

Diaphragm Silicon+Aluminium

#### Differential pressure range:

0 ~ 50Pa → 20kPa

±50Pa → ±10kPa

#### Operating pressure range:

-50 ~ +50kPa

#### Allowable max. differential pressure:

50kPa

#### Operating temperature:

-10 ~ 60°C

#### Operating humidity limits:

30 ~ 90%RH (But should not be frozen)

#### Power source:

14 ~ 27V DC

#### Output:

4 ~ 20mA DC

#### Load resistance:

500Ω max. (In case of power source 24V DC)

#### Transmission system:

2 wire system

#### Accuracy:

±2.0%F.S. (23 ±2°C)

#### Temperature coefficient:

±0.2%F.S./°C (Zero)

0 ~ 0.3%F.S./°C (Span)

#### Attitude error:

1Pa/45° or less

#### Case material:

PBT resin

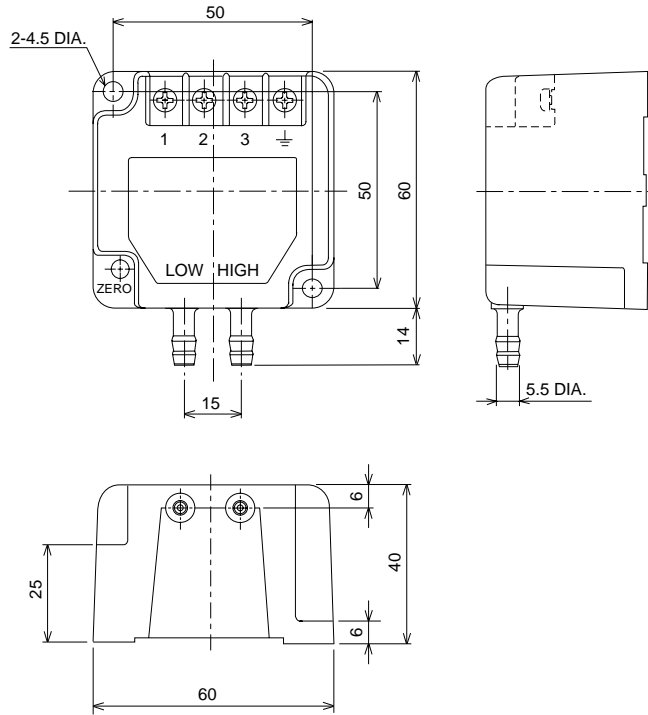
#### Construction:

Indoor use

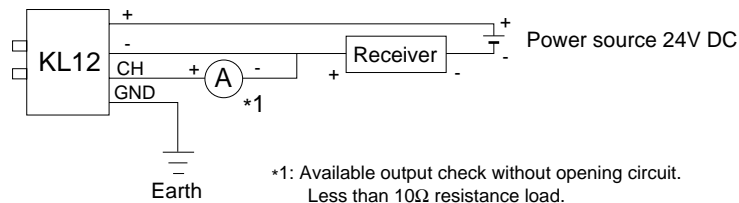
#### Weight:

Approx. 80g

## DIMENSIONS



## WIRING



## APPLICATION

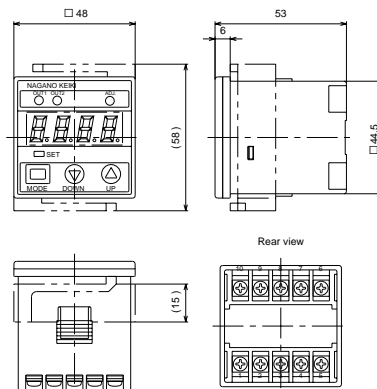
Digital display and many output functions are compactly united. By combining the KL12 micro differential pressure transmitter with the GC68 digital indicator (optional), this transmitter can comply with diversified needs of the job site.



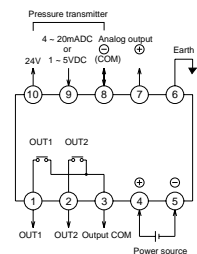
- Display type: 4 digit LED digital display
- Display accuracy:  $\pm 0.5\%$  F.S.
- Power supply voltage: 24V DC  $\pm 10\%$
- Connecting sensor: Supply power source 24V DC  $\pm 10\%$   
Sensor input 4 ~ 20mA DC or 1 ~ 5V DC

- Control output: Relay contact  $\times 2$  output Analog output (option)
- Main function: Scaling, loop check, filter function
- Mounting: Panel mounting, surface mounting
- For GC68, please refer to detailed catalogue No.B04-05.

### In case of panel mounting



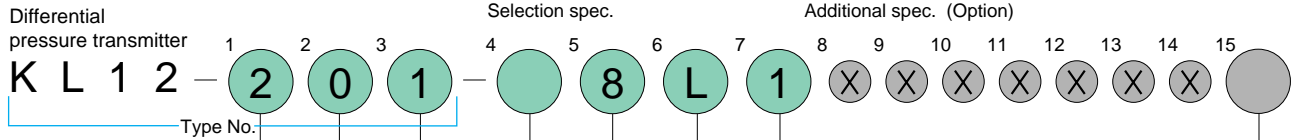
### WIRING



# Type No. constitution

Please specify Type No., each specification and range when ordering.

Note: For this Model, there is no applicable item for the figures X, but please specify X when ordering.



1 Mounting

2	Surface mounting
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2 Process connection

0	5.5 DIA. Barb socket
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3 Gas contact parts

1	Diaphragm: silicon
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4 Differential pressure range  
(When ordering, please specify pressure range & unit.)

1	0 ~ 50, 100, 200Pa
2	0 ~ 0.5, 1, 2, 5, 10, 20kPa
3	±50, ±100, ±200Pa
4	±0.5, ±1, ±2, ±5, ±10kPa

7 Output

1	4 ~ 20mA DC (2 wire system)
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6 Power source

L	14 ~ 27V DC
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5 Accuracy

8	±2.0%F.S.
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15 Document

0	Nil
1	Please specify your requirement Drawing one sheet, Instruction manual, Inspection procedure, Mill sheet, Test report