

ECP2 Pressure Gauge (Metal Housing)



DESCRIPTION

With the piezoresistive pressure sensor, as soon as changes in environmental pressure are detected, the thin film deformation on the pressure sensor changes too, and the piezoresistive material on the thin film experiences deformation accordingly. The resistance changes as such as well. Such resistance change, once read and processed through the Wheatstone bridge and the amplifier circuit, can be used to measure the size of pressure.

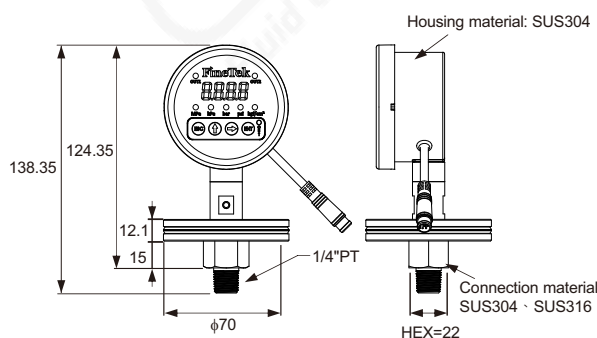
FEATURES

- SUS304 metal housing.
- Max. temperature up to 150 degrees.
- Dual-color LED and red-text alarm displays.
- Analog 4~20 mA output that allows continuous detection of pressure valves.
- Dual NPN/PNP output that makes pressure control quicker and more convenient.
- IO-Link compatibility to make system integration easier.

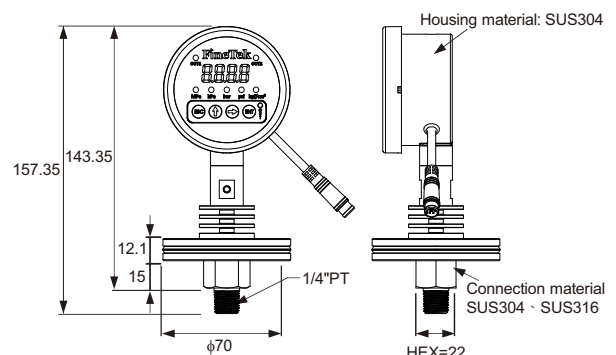
DIMENSION

(Unit:mm)

Standard type



High temperature type



SPECIFICATIONS

Working power	DC 12~36V
Power consumption	<50mA (@24V unloaded)
Working temp.	Standard type : -10~100°C High temp. type : -10~150°C
Working medium	Liquid/ Air/ High temperature
Precision	± 1.0%F.S.
Repeatability	± 0.3%
Temp. coefficient	± 0.3%F.S./°C (25°C as the baseline)
NPN/PNP output current	Maximum pressure tolerance of 30 V/100 mA and breakover residual voltage of < 1.5 V
NPN/PNP protective current	180mA
NPN/PNP short-circuit protection	YES
Delay time	1.5 ms 、 20 ms 、 100 ms 、 500 ms 、 1,000 ms 、 2,000 ms 、 5,000 ms
Current Output	4~20mA Max. Load resistance When the power voltage is 12V: 300Ω When the power voltage is 24V: 500Ω Linearity: ± 1%F.S. Precision: ± 2.5%F.S. (Ambient temperature of 25 ± 3°C)
Display unit	MPa 、 kPa 、 kgf / cm ² 、 bar 、 psi
Display method	Red/Green Dual-color LED
Number of digits displayed	4 (7 segments)
Action indicator	It is lit when the output is ON OUT1 、 OUT2 、 Red
IP rating	IP65

ORDERING INFORMATION

ECP 2 ⁰⁵ ⁰⁶ 0 0 - ⁰⁹ ¹⁰ ¹¹ ¹² ¹³ P A ¹⁶ ¹⁷ ¹⁸ ¹⁹

⁰⁵ ⁰⁶ Type

00: Standard type

02: High temperature type

⁰⁹ ¹⁰ Connection material

MA: SUS304

MB: SUS316

¹¹ ¹² Diaphragm

MC: SUS316L

¹³ Pressure range

A: 0~5kgf/cm²

B: 0~10kgf/cm²

C: 0~20kgf/cm²

¹⁶ ¹⁷ Connection - size

A2: 1/4"

A4: 3/8"

A5: 1/2"

A7: 3/4"

A8: 1"

B1: 1-1/2"

¹⁸ ¹⁹ Connection - thread

01: PT male

07: NPT male

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