

# ECP12 Display Pressure Gauge



## INTRODUCTION

This pressure gauge uses a piezoresistive sensing principle. Pressure changes cause deformation of the ceramic sensing element, leading to a resistance change in the piezoresistive material. The signal is processed through a Wheatstone bridge and amplification circuit to accurately measure pressure.

## PRODUCT FEATURES

- Dual-color LED display with alarm indication
- 4–20 mA analog output
- Corrosion-resistant construction
- Quick-release design for easy maintenance
- Dual NPN/PNP outputs
- IO-Link compatible



## APPLICATION

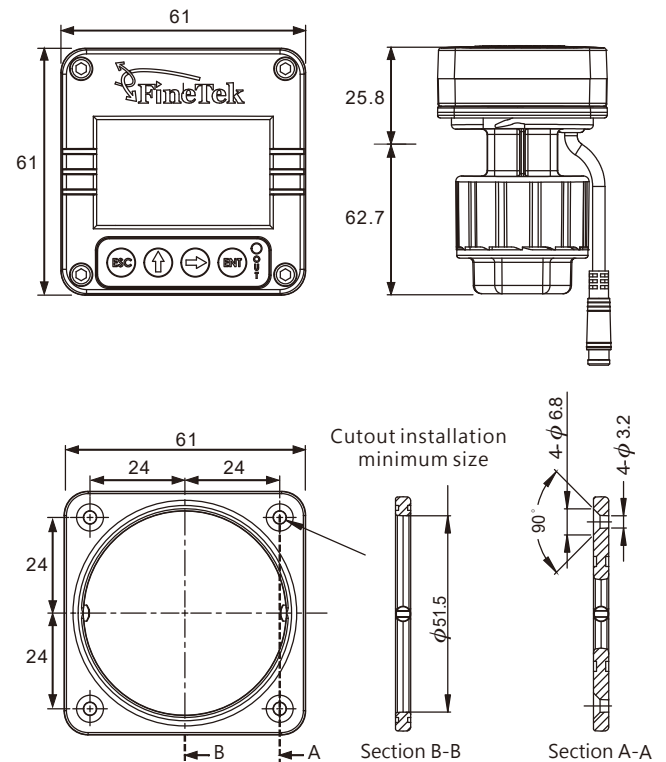
This product is a modular pressure gauge designed for use with air, clean water, and acidic or alkaline chemical solutions.

## SPECIFICATION

Power supply	DC 12~36V
Power consumption	<50mA (@24V,no load)
Operating temp.	- 10 to 60°C
Measured media	Liquids / mildly corrosive liquids / air
Accuracy	±1%F.S.
Temp. coefficient	±0.1%F.S./°C (25°C Reference)
NPN/PNP output current	Max. V / I:30 V / 100 mA, Residual voltage < 1.5 V
NPN/PNP protection current	125mA
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	4–20 mA Max. load resistance: 300 Ω @ 12 V 500 Ω @ 24 V Linearity: ±1% F.S. Accuracy: ±1% F.S. (Ta = 25 ±3 °C)
Display units	MPa · kPa · kgf / cm <sup>2</sup> · bar · psi
Display type	Dual-color LED (Red/Green)
Status indicator	LED ON when output is active (OUT1, OUT2 – Red)

## DIMENSIONS

(Unit : mm)



Drill diagonal  $\phi 3.2$  mm holes according to Section B–B and secure the retaining plate with countersunk screws.

Provide a  $\phi 51.5$ –54 mm panel cutout for mounting the display pressure gauge.

## ORDER INFORMATION

ECP 1 2 0 0 0 - 1 8 3 2 <sup>⑬</sup>□ P A <sup>⑯</sup>□ <sup>⑰</sup>□ <sup>⑱</sup>□

⑬ Pressure range

A: 0~5 kgf/cm<sup>2</sup>

B: 0~10 kgf/cm<sup>2</sup>

⑯⑰ Connection size

A2: 1/4"

⑱ Connection specification

02: Female PT thread

