

MP23 series

DIGITAL PRESSURE GAUGE



Features

- Pressure range : Compound -100~100 kPa
Positive 0~1MPa.
- High accuracy and Resolution.
- Low cost.

Specification

| Model | MP23C (Compound) | MP23P (Positive) |
|----------------------------|---|---|
| Operating pressure range | - 100.0~100.0 kPa | - 0.100 ~ 1.000MPa |
| Allowable pressure | 300 kPa | 1.5 MPa |
| Fluid | Air, Non-corrosive gases ,incombustible gases | |
| Power supply voltage | 12 to 24V DC 10%, Ripple (P-P) 10% or less | |
| Current consumption | ≤ 55mA | |
| 7 segment LED display | 3 1/2 digit LED display (Sampling rate: 5 times/1sec.) | |
| Indicator accuracy | ≤ ±2% F.S. ±1 digit (ambient temperature: 25 ±3℃) | |
| Environment | Enclosure | IP40 |
| | Ambient temp. range | Operation: 0 ~ 50℃, Storage: -20 ~ 60℃ (No condensation or freezing) |
| | Ambient humidity range | Operation/Storage: 35 ~ 85% RH (No condensation) |
| | Withstand voltage | 1000V AC in 1-min. (between case and lead wire) |
| | Insulation resistance | 50Mohm min. (at 500V DC , between case and lead wire) |
| | Vibration | Total amplitude 1.5mm, 10Hz-55Hz-10Hz scan for 1 minute, two hours each direction of X, Y and Z |
| | Shock | 980m/s ² (100G), 3 times each in direction of X, Y and Z |
| Temperature characteristic | ≤ ±2% F.S. of detected pressure (25℃) at temp. Range of 0~50℃ | |
| Lead wire | 2-Conductor Oil-resistance cable(0.15mm ²) | |
| Weight | Approx 102g (with 2-meter lead wire) | |

Order example

MP23C — F1 — QD

MODEL

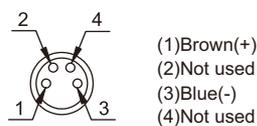
PRESSURE RANGE
C: Compound
(- 100.0~100.0 kPa)
P: Positive
(- 0.10~1.00 Mpa)

PRESSURE PORT
Female thread
F1: Rc1/8
F2: NPT1/8
F3: G1/8

Male thread
M1: R1/8
M2: NPT1/8
N1: R1/4
N2: NPT1/4

CABLE LENGTH/CONNECTOR
Blank: With 2 meter cable
QD: With M8, 4 Pin male connector

QD Pinout



Mounting accessories

MP — A1

MODEL

OPTION PARTS

A1: Mounting bracket (BT-1)

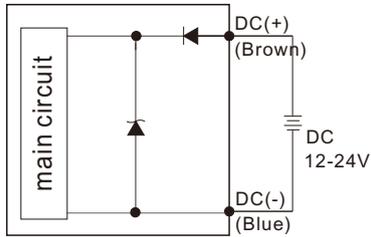
A2: Mounting bracket (BT-2)

B1: Panel adapter (PA-A)

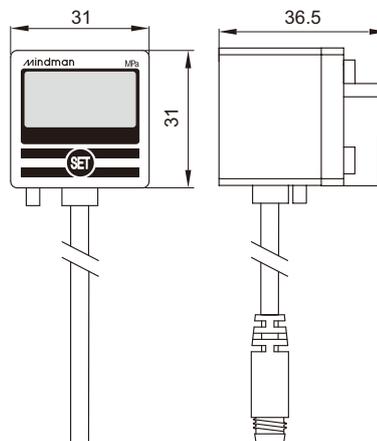
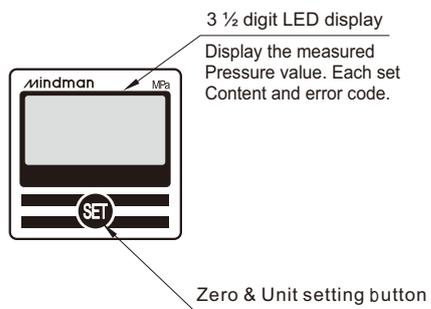
C1: Panel adapter + Front protective lid (PA-B)

※ Use the same option spare part with MP45, refer to page 5-21.

Circuit wiring graph



Unit dimension / Panel instructions



Installation

1. This product has two inlet pressure ports, select the one most convenient for installation.
2. Please plug the unused inlet port with supplied port plug. Use seal tape to prevent pressure leak.

