

Model SD1000

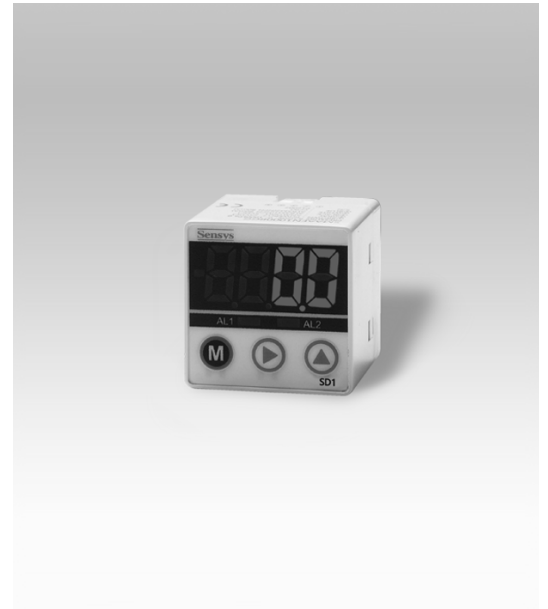
Compact Size(30X30mm) Digital Indicator

Description

The SD1000 is a 30X30mm compact size digital indicator. The display has a 4-digit LED. Analog input and output can be selected from 0~5Vdc, 1~5Vdc, 4~20mA with the front button. Alarm output is provided in 2-channel NPN open collector and PNP open collector types and can be selected when ordering.

Features

- ▶ CE Certified
- ▶ Compact design(30mm×30mm)
- ▶ ±4Digit LED display
- ▶ Input Signal : 1~5, 0~5VDC, 4~20mA
- ▶ Analog Output : 1~5, 0~5VDC, 4~20mA
- ▶ Switch Output : 2CH NPN or PNP open collector output
- ▶ 0.5%FS accuracy
- ▶ Dimension : 30mm X 30mm X 33mm



Specifications

| Model | | SD1000 | SD1100 |
|---------------------------------|----|-------------------------------------------------------|-------------------------------------------------------|
| Power | | 12~24VDC±10%(Ripple P-P Max. 10%) ¹⁾ | |
| Power Consumption | | max. 1.2W (max. 24VDC, 50mA) ²⁾ | |
| Display | | ±9999(Red LED) | |
| Power for Sensor | | 12~24VDC±10%(max. 200mA) ³⁾ | |
| Input Signal | V | 0~5VDC, 1~5VDC (Input Impedance min. 1MΩ) | |
| | mA | 4~20mA (Input Impedance min. 250Ω ±1%) | |
| Switch Output | | 2-Ch. NPN open collector output (max. 24VDC/100mA) | 2-Ch. PNP open collector output (max. 24VDC/100mA) |
| Analog Output | V | 0~5VDC ⁴⁾ , 1~5VDC | |
| | mA | 4~20mA | |
| Accuracy | | ±0.5%FS±1digit at 25°C | |
| Resolution | | Input : 16bit / Output : 12bit | |
| Thermal Effect | | ±0.02%FS/°C | |
| Sampling Time | | 0.1~9.9 sec. | |
| Operating Temperature(Humidity) | | -10~50°C (10~90%RH) | |
| Storage Temperature(Humidity) | | -20~80°C (5~95%RH) | |
| Dimension | | W30 X H30 X D33 | |

¹⁾ Protection circuit for connecting reverse input power.

²⁾ This value excludes the power consumption of the sensor

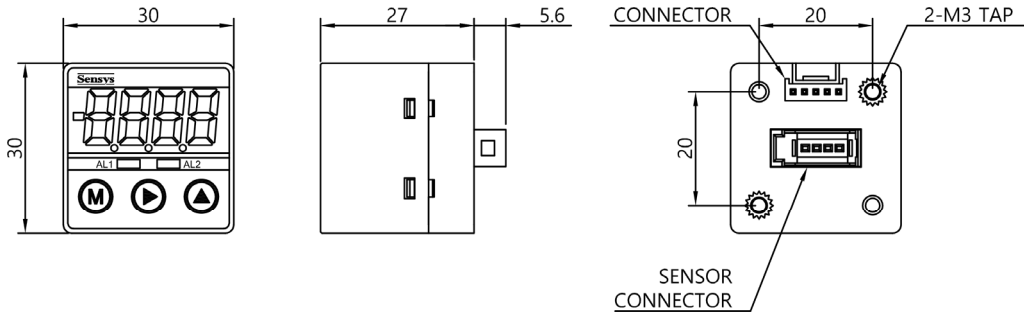
³⁾ The sensor power supply is a ByPass circuit that uses the power input as it is.

There is no separate reverse connection protection and short circuit protection circuit, so be careful when wiring.

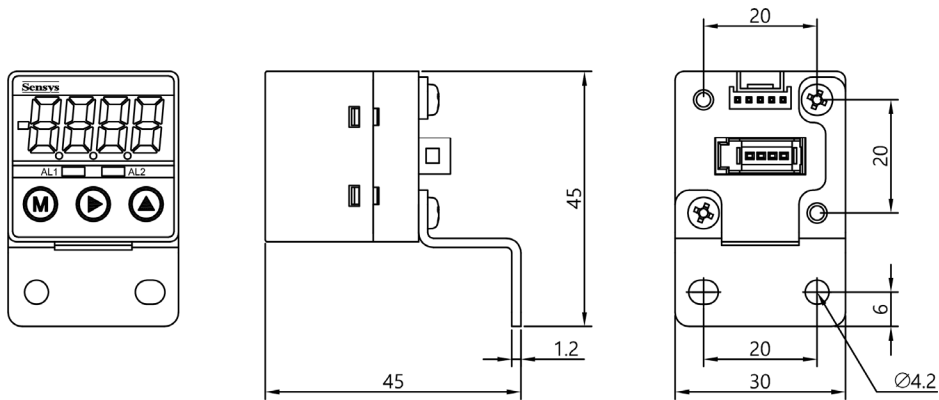
⁴⁾ Offset value of analog output: 0.02V(0.08mA)

Dimension

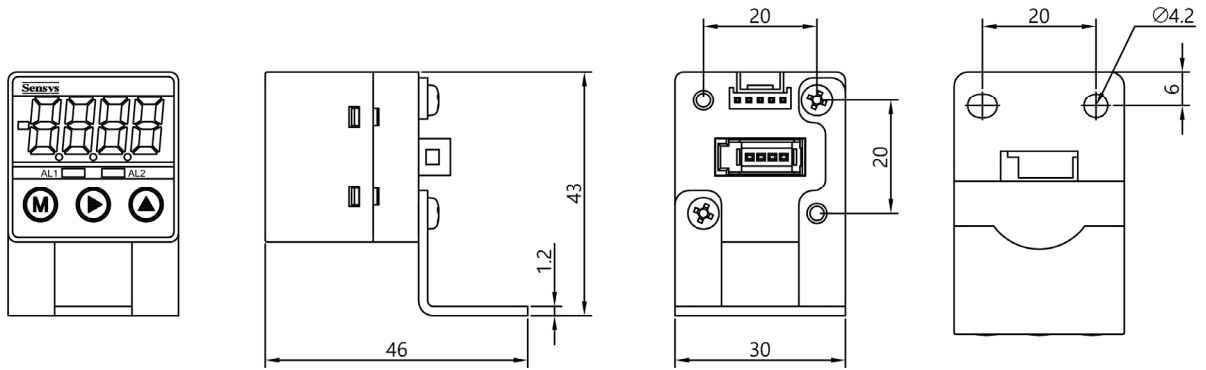
► Dimension



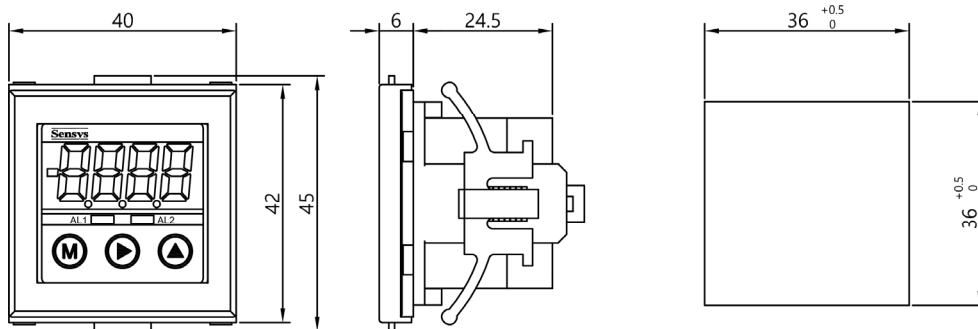
- Bracket A



- Bracket B

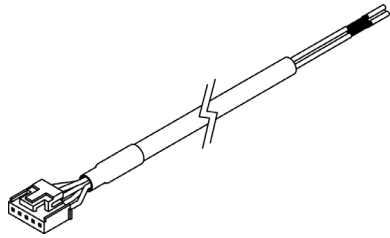


- Panel Mounting Bracket



Panel Cut Size
(Panel Thickness 1~8mm)

▶ Accessory

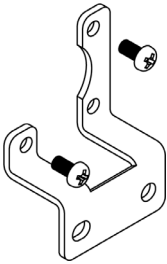


Connector Ass'y (Length : 2m)



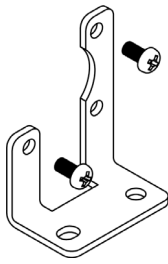
Sensor Connector(e-CON)

▶ Option



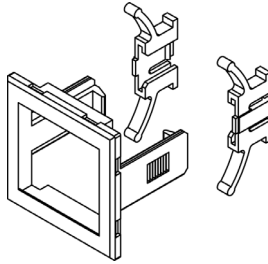
Bracket A

(O/C : SMA-O-A)



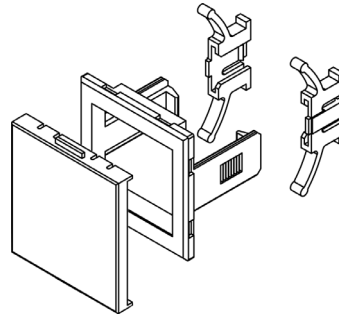
Bracket B

(O/C : SMA-O-B)



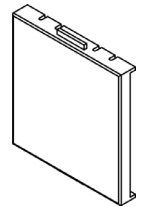
Panel Mounting Bracket Set

(O/C : SMA-O-C)



Panel Mounting Bracket Set
+ Front Protection Cover

(O/C : SMA-O-D)



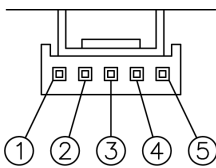
Front Protection Cover

(O/C : SMA-O-E)

*. O/C : Ordering Code

Connection

▶ Connector



| Pin No. | Wire Color | Connections |
|---------|------------|------------------|
| 1 | Brown | Power+(12~24VDC) |
| 2 | Gray | Analog output+ |
| 3 | Black | Alam 1 |
| 4 | White | Alam 2 |
| 5 | Blue | Com. |

▶ Sensor Connector



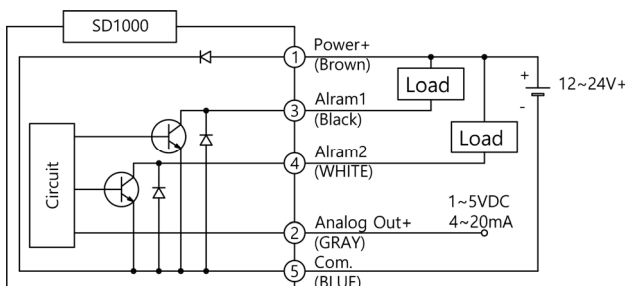
| Pin No. | Input SignalSensor | |
|---------|-------------------------------------|-----------------|
| | 3Wire 0~5Vdc 1~5Vdc 4~20mA | 2Wire 4~20mA |
| 1 | Power+ | + |
| 2 | Signal+(Only mA) | - |
| 3 | com. | X |
| 4 | Signal+(Only V) | X |

Function

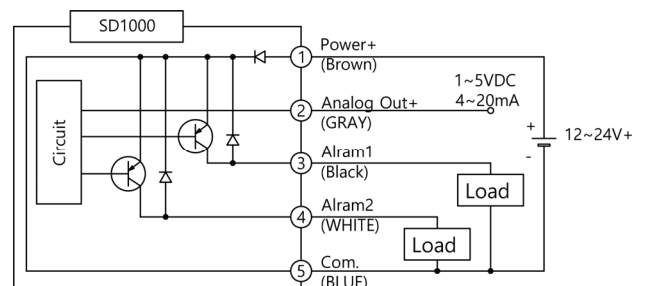
- ▶ Lock On/Off
- ▶ Zero-Adjustment
- ▶ Factory Reset
- ▶ Error Information
- ▶ Input Signal Control
- ▶ Response Time Control
- ▶ Display Scale Control
- ▶ Decimal Point Control
- ▶ Display Lower-Limit Control
- ▶ Alarm Contact N.O/N.C Setting
- ▶ Alarm HI/LOW/A/B Setting
- ▶ Analog Output Signal Setting
- ▶ Analog Output Scale Setting
- ▶ Analog Output Calibration
- ▶ Peak Value View & Reset

Internal Circuit Diagram

▶ NPN Type

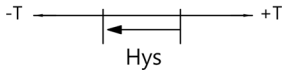
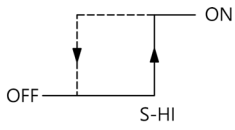


▶ PNP Type

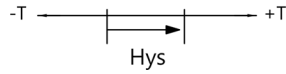
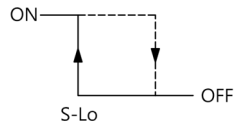


Alarm Mode

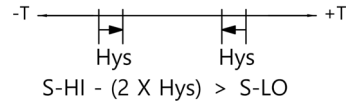
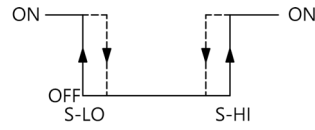
▶ Hi Mode



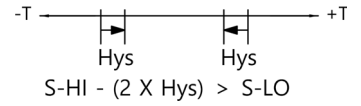
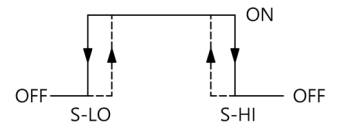
▶ Low Mode



▶ A Mode



▶ B Mode



Ordering Information

