

# Model A1-2000

## Multi Input Type Digital Indicator

### Description

Model A1-2000 is a 4-1/2digit( $\pm 19999$  count) industrial process indicator with legible 3-color, 20mm high LED digit. It is designed to read various inputting signals such as V, mV, mA, TC, RTD, Load Cell and others. All settings can be done with buttons in the front.

### Features

- ▶ CE Certified
- ▶ Accepts V, mV, mA, TC, RTD, Load Cell
- ▶ Legible 3-color Display :  $\pm 19999$ (20mm high 3-color LED)
- ▶ AL1, AL2, GO RELAY Contact Output
- ▶ 0~5V, 1~5V, 0~10V, 4~20mA Analog Output
- ▶ RS485 Communication
- ▶ SENSOR POWER (24V, 10V, 5V)
- ▶ External Digital Input(D/I) : PEAK, HOLD, RESET, ZERO
- ▶ Dimension : 96mm×48mm×111.5mm



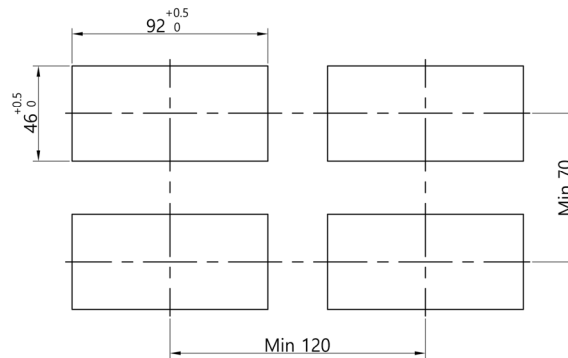
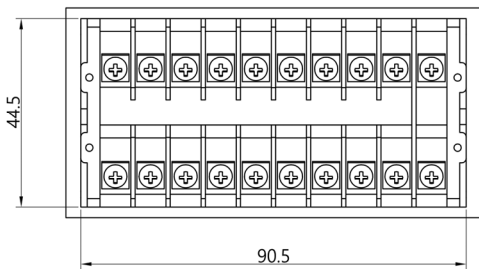
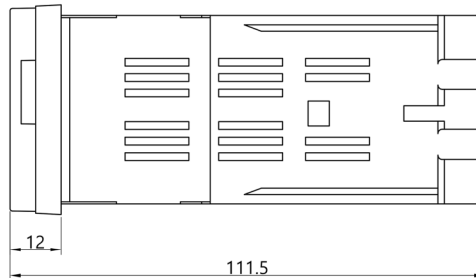
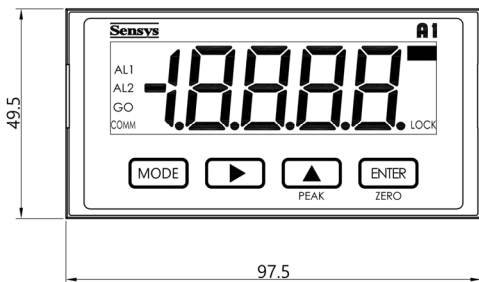
### Specifications

|                                     |   |   |                                |                                 |                         |
|-------------------------------------|---|---|--------------------------------|---------------------------------|-------------------------|
| Power                               | AC 90~250V 50/60Hz, DC 11~32V <sup>(Optional)</sup>                 |   |                                |                                 |                         |
| Display                             | $\pm 19999$ (3 colors LED : Red/Green/Yellow)                       |   |                                |                                 |                         |
| Power for Transducer                | 5, 10, 24VDC(45mA) / Load Cell : 5, 10VDC                           |   |                                |                                 |                         |
| Input Signal                        | V   | Min 0.00 ~ 1.00V / Max 0.00 ~ 11.00V (Input Impedance above 1M $\Omega$ ) |                                |                                 |                         |
|                                     | mV  | Min 0 ~ 10mV / Max 0 ~ 999mV (Input Impedance above 1M $\Omega$ )         |                                |                                 |                         |
|                                     | Load Cell   | 0.5mV/V ~ 5.0mV/V (Input Impedance above 1M $\Omega$ )                    |                                |                                 |                         |
|                                     | mA  | Min 0.00~1.00mA / Max 0.00~22.00mA (Input Impedance above 1M $\Omega$ )   |                                |                                 |                         |
|                                     | RTD<br>(3Wire)  | Type  | Measuring Range( $^{\circ}$ C) | Min. Measured SPAN              | Accuracy(%FS)           |
|                                     |   | DIN   | -200~850                       | 50                              | $\pm 0.2$               |
|                                     |   | JIS   | -200~600                       | 50                              | $\pm 0.2$               |
|                                     | T/C   | Type  | Measuring Range( $^{\circ}$ C) | Min. Measured SPAN              | Accuracy( $^{\circ}$ C) |
|                                     |   | R   | 0~1760                         | 100                             | $\pm 2.0$               |
|                                     |   | K   | -200~1370                      | 60                              | $\pm 1.5$               |
|                                     |   | E   | -200~1000                      | 60                              | $\pm 1.5$               |
|                                     |   | J   | -200~1200                      | 60                              | $\pm 1.5$               |
|                                     |   | T   | -200~400                       | 50                              | $\pm 1.5$               |
|                                     |   | B   | 0~1820                         | 100~400 : 300<br>400~1820 : 150 | $\pm 3.0$<br>$\pm 2.0$  |
| S                                   |   | 0~1760  | 100                            | $\pm 2.0$                       |                         |
| N                                   |   | -200~1300   | 60                             | $\pm 1.5$                       |                         |
| C                                   | 0~2310  | 100   | $\pm 2.0$                      |                                 |                         |
| Digital Input(D/I)                  | PEAK, RESET(ZERO), HOLD   |   |                                |                                 |                         |
| Contact Output                      | AL1, AL2, GO RELAY(A Contact) Contact Capacity : 250V AC/5A, 30V/5A |   |                                |                                 |                         |
| Analog Output <sup>(Optional)</sup> | 0~5V, 1~5V, 0~10V, 4~20mA   |   |                                |                                 |                         |
| Communication <sup>(Optional)</sup> | RS485(Modbus RTU)   |   |                                |                                 |                         |
| Accuracy                            | $\pm 0.1\%$ FS $\pm 1$ digit at 25 $^{\circ}$ C                     |   |                                |                                 |                         |
| Thermal Effect                      | $\pm 0.02\%$ FS/ $^{\circ}$ C                                       |   |                                |                                 |                         |
| Sampling Time                       | 10, 50, 100, 250, 500, 1000ms                                       |   |                                |                                 |                         |
| Display Time                        | 10, 50, 100, 250, 500, 1000ms                                       |   |                                |                                 |                         |
| Operating Temperature(Humidity)     | -10~50 $^{\circ}$ C (10~90%RH)                                      |   |                                |                                 |                         |
| Storage Temperature(Humidity)       | -20~80 $^{\circ}$ C (5~95%RH)                                       |   |                                |                                 |                         |
| Dimension                           | W96 X H48 X D111.5  |   |                                |                                 |                         |
| Weight                              | 230g  |   |                                |                                 |                         |

## Function

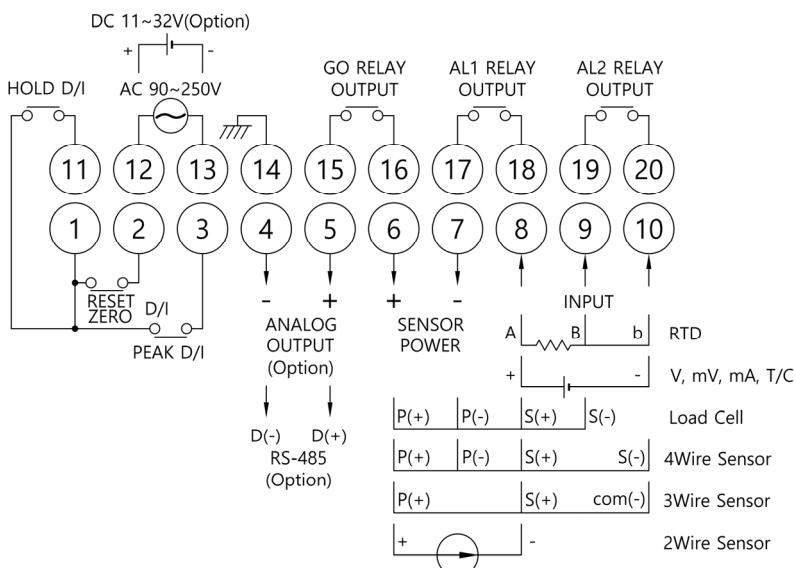
- ▶ Lock On/Off
- ▶ Zero-Adjustment
- ▶ Factory Reset
- ▶ Error Information
- ▶ Firmware Update Information
- ▶ Input Signal Control
- ▶ Special Functions(Root, Square)
- ▶ Response Rate Control
- ▶ Display Scale Control
- ▶ Decimal Point Control
- ▶ Display Lower-Limit Control
- ▶ Alarm HI/LOW Setting
- ▶ Analog Output Signal Setting
- ▶ Analog Output Scale Setting
- ▶ Analog Output Calibration
- ▶ Peak Setting
- ▶ Communication Setting
- ▶ SENSOR POWER Control
- ▶ Digital Input Signal Control
- ▶ Display Response Rate Control
- ▶ Digit Color Control
- ▶ Alarm of Signal Disconnection for Temperature Sensor

## Dimension



Panel Thickness : 1~6mm

## Connection



## Ordering Information

