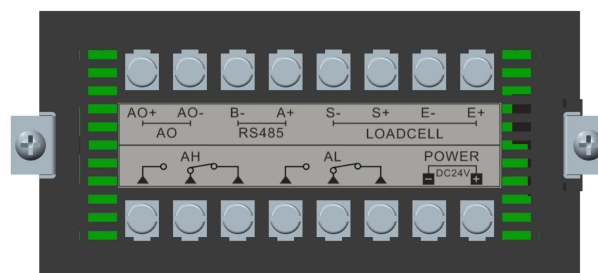
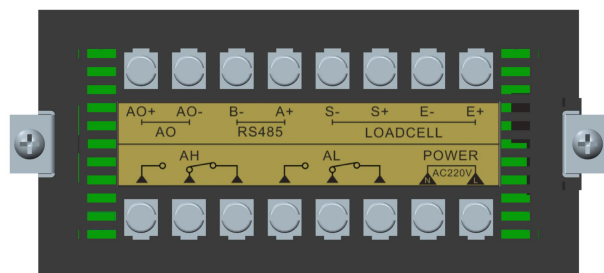
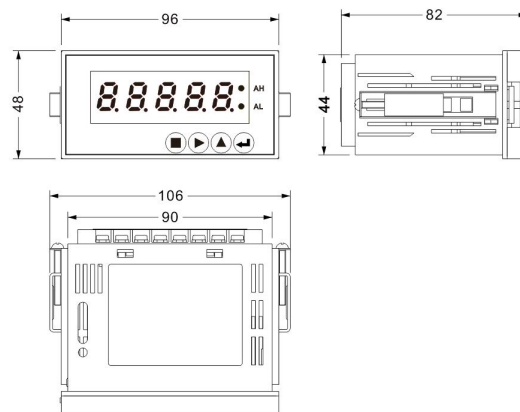


SU80B Weighing Controller [ABS]



1. Applications

- ☐ Weight Display, Weight Low/High Limit Output, Weight Setpoint Output, Overload Protection
- ☐ AO[0-20mA] Weight Analog Transmission.
- ☐ RS485 Weight Digit Transmission.
- ☐ For Remote Host-slave Weighing System.

2. Technical Specifications

- ☐ CPU System
 - ✧ 32-bit ARM CPU with 48MHz clock & high arithmetic speed.
 - ✧ EMC design with high anti-jam for industrial environment.
- ☐ Display & Keypad
 - ✧ 5 Red LED digital tubes for weight display.
 - ✧ 2 Red LED lamps for indicating relay output status.
 - ✧ 4-key keypad for parameter setting and system calibration.
- ☐ Loadcell Interface
 - ✧ Excitation Voltage / Max. Current: DC5V/200mA.
 - ✧ Signal Input Range: $\pm 19.5\text{mV}$.
 - ✧ Output Sensitivity of Loadcell: $1.0\sim 3.5\text{mV/V}$.
 - ✧ 24-bit $\Sigma\text{-}\Delta$ ADC with resolution $1/1,000,000$.
 - ✧ Optional Sampling Frequency: 10Hz, 40Hz, 640Hz, 1280Hz.
 - ✧ Special anti-vibration digital filtering algorithm.
 - ✧ Zero Drift: $\pm 0.2\mu\text{V}/^\circ\text{C}$ RTI (Relative to Input).
 - ✧ Gain Drift: $\pm 10\text{ppm}/^\circ\text{C}$.
 - ✧ Non-linearity: 0.005%FS.
- ☐ Switch Signal Output Interface
 - ✧ 2 Relay switch outputs with normally open and normally closed contacts [DO].
 - ✧ Contact Capacity of Relay Switch: AC250V/DC24V, 1A.
- ☐ Analog Signal Output Interface
 - ✧ 0~20mA Output: Non-linearity: 0.1%FS.
 - ✧ AO Voltage/Current Low/High Limit Value can be set.
- ☐ RS485 Digital Communication Interface

- ✧ Communication Protocol: Host-slave Modbus RTU.
- ✧ Optional Baud Rate: 1200, 2400, 4800, 9600, 19200bps.
- ✧ Parity Check: None.

☐ Operating Specification

- ✧ Power Supply 1: AC85~264V, 50/60Hz, Max. 3W.
- ✧ Power Supply 2: DC24V $\pm 20\%$, Max.3W.
- ✧ Outline Size: $96 \times 48 \times 82\text{ mm}$ [L $\times$ W $\times$ H].
- ✧ Box Body Size: $90 \times 44\text{ mm}$ [L $\times$ W].
- ✧ Panel Cut-out Size: $92 \times 46\text{ mm}$ [L $\times$ W].
- ✧ Operating Temperature: -25°C to $+45^\circ\text{C}$.
- ✧ Storage Temperature: -30°C to $+60^\circ\text{C}$.
- ✧ Relative Humidity: Max. 85%RH.
- ✧ Weight: Approx. 210g.
- ✧ Protection Level: IP50.

3. Loadcell Port LOADCELL

- ☐ S-: mV Signal Input -.
- ☐ S+: mV Signal Input +.
- ☐ E-: Excitation Voltage -.
- ☐ E+: Excitation Voltage + [DC5V].

4. Power Input Port POWER

- ☐ N: AC220V Null Wire.
- ☐ L: AC220V Live Wire.
- ☐ DC-: DC24V Input -.
- ☐ DC+: DC24V Input +.

5. Relay Switch Output Port DO

- ☐ AL: Relay DO1 for Weight Setpoint 1 Output.
- ☐ AH: Relay DO2 for Weight Setpoint 2 Output.

6. Analog Signal Output Port AO

- ☐ AO+: 0-20mA Output +.
- ☐ AO-: 0-20mA Output -.

7. Communication Port RS485

- ☐ B-: RS485 Data-.
- ☐ A+: RS485 Data +.