Universal Inputs & Multi-Functions Panel Meter

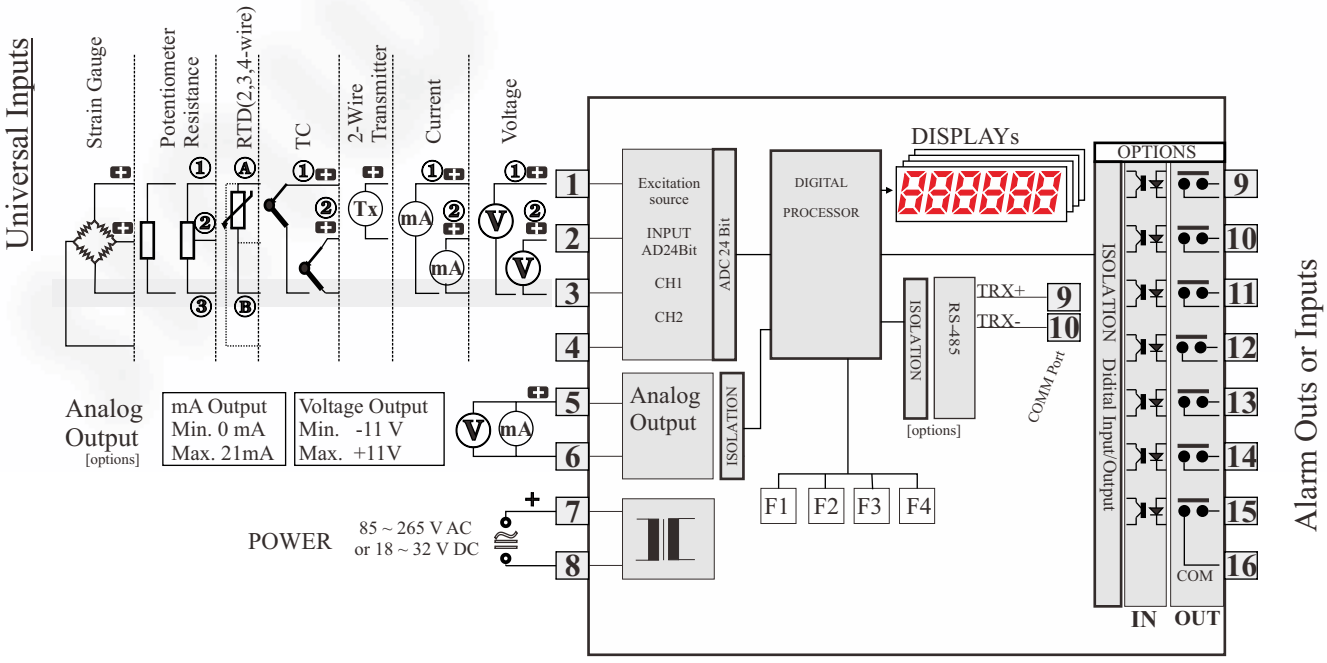
☐ Function & Features

* **Universal Two Inputs (Input 1, Input 2)**
  (V, mV, mA, Loop Powered, RTD, T/C, Resistance and Potentiometer, Strain Gauge....)
* **Multiple functions**
  (Peak-Hold,Counter,Integrator,Square-root, Adder, Substracter, Multiplier, Divider)
* **Front-programmable**
* **Both input type, output, and range are configurable**
* **6-digit LED display**
* **Digital Brightness Control (Intensity: 0 ~ 15)**
* **Analog-Output(Isolated) (mV / V / mA)**
  (±10V, ±5V, ±1V, 0~10V, 0~1V, 0~5V, 4~20mA, 0~20mA)
* **7 Points Contact output or Input (Alarm 1~7 or DI 1~7)**
* **Communication Interface (RS-485) standard (Isolated)**

☐ GENERAL SPECIFICATIONS

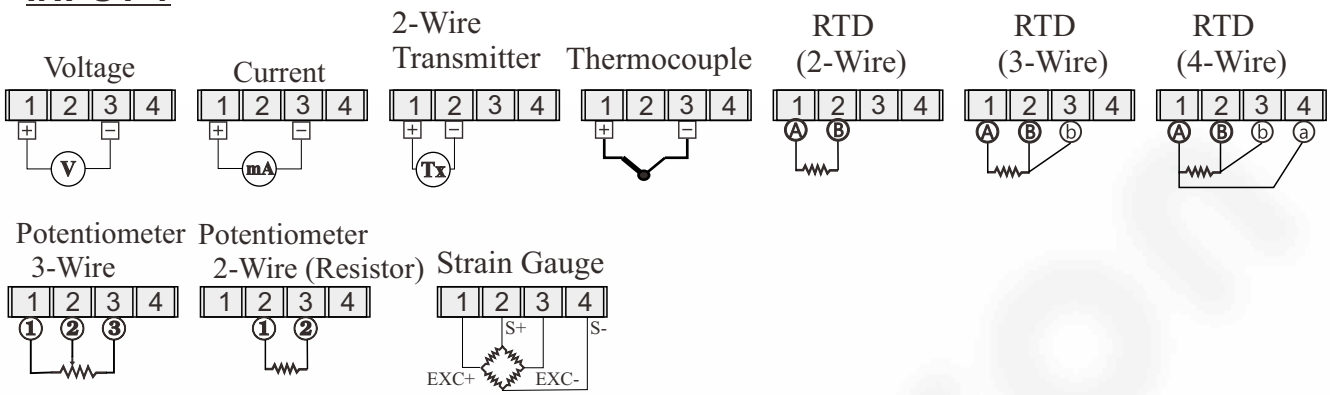
- Construction : Panel flush mounting
- Connection : M3.5 Screw terminals
- Housing material : flame-retardant Poly Carbonate (white)
- Power supply : AC 85 ~ 265V or DC 18 ~ 32V (about 3VA)
- Operating temperature : -5 ~ 55 ℃ (23 ~ 131 ℉)
- Operating humidity : 10 ~ 90 % RH (non-condensing)
- Display range : 6 Digits (-199999 ~ 999999)
- Dimension : W96 x H48 x D118mm (3.78" x 1.89" x 4.65")
- Dimension of mounting hole(cutting) : W92 x H44mm (3.62"x1.73")

SCHEMATIC CIRCUIT & CONNECTION DIAGRAM

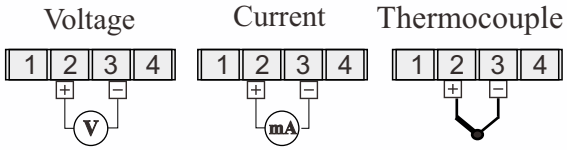


INPUT CONNECTION DIAGRAM

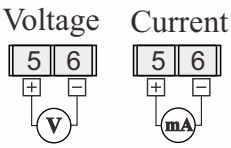
INPUT 1



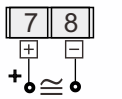
INPUT 2



OUTPUT 1 (option)



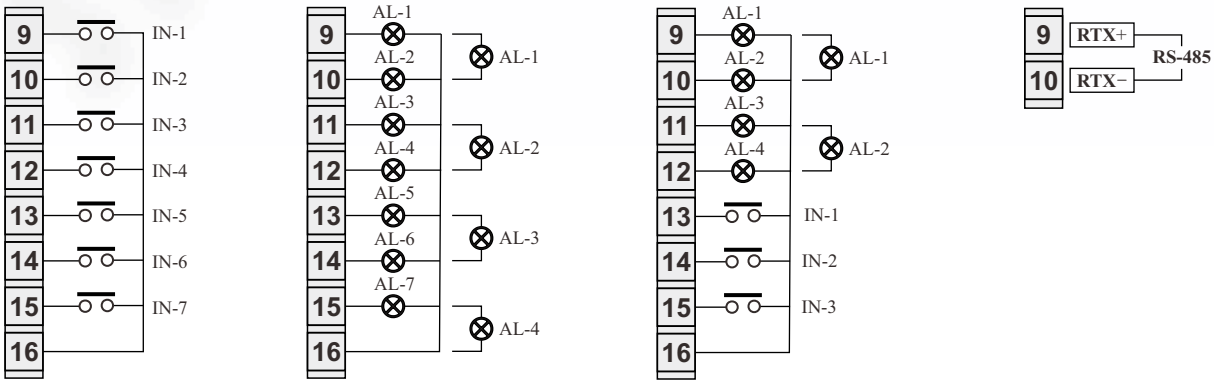
POWER



85 ~ 265 V AC
or 18 ~ 32 V DC

[OPTION]

* Alarm outputs : 7 points (max.) Relay or Photo-coupler
* Input : 7 points (max)
* Communication port : 1 point



MODEL & SUFFIX CODE

SCON5500 - □ □ □ □ □ □ □

Universal Input (1 and 2) Selection
- DC Current & Voltage (Input 1, Input 2)
- Current : (Usable range) ±20mA(max.)
- Loop-Powered Current : (Usable range) 4~20mA (input 1)
- Voltage : (Usable range) ±10V(max.)
- Millivolt : (Usable range) ±1V(max.)

- Thermocouples (Input 1, Input 2)
- K(CA), E(CRC), J(IC), T(CC), B(RH), R, S, N

- RTD (Input 1)
- Pt 100 Ω

- Potentiometer (Input 1)
- Total resistance 100Ω ~ 200KΩ

- Resistance (Input 1)
- Total resistance 100Ω ~ 200KΩ

Analog Output Selection
0 : None
1 : DC 1V, 5V, 10V(Max.)
2 : DC ±1V, ±5, ±10 (Max.)
3 : DC 20mA (Max.) (Load Resistance : 0~600Ω)
R : Other Special Spec.

Relay Contact Output (0:None 1 ~ 7)
00 : None
Ax : Relay Contact (A1~A7)
Bx : Photo coupler (B1~B7)
Rx : Other Special Spec.

Input (0 : None 1 ~ 7)
00 : None
Ax : Voltage (24V) A1 ~ A7
Bx : Relay Contact or Open Collector (B1~B7)
Rx : Other Special Spec.

Communication port
0 : None
1 : RS-485
2 : RS-232

Power Supply
Z : AC 85~265V
Y : DC 18~32V
R : Other Special Spec.

Ex.) SCON5500-3 A2 00 0 Z

■ FUNCTIONS
- Analog Calculations
  [000] Normal input (A)
  [001] Square Root (A)
  [002] Root Extraction (A)

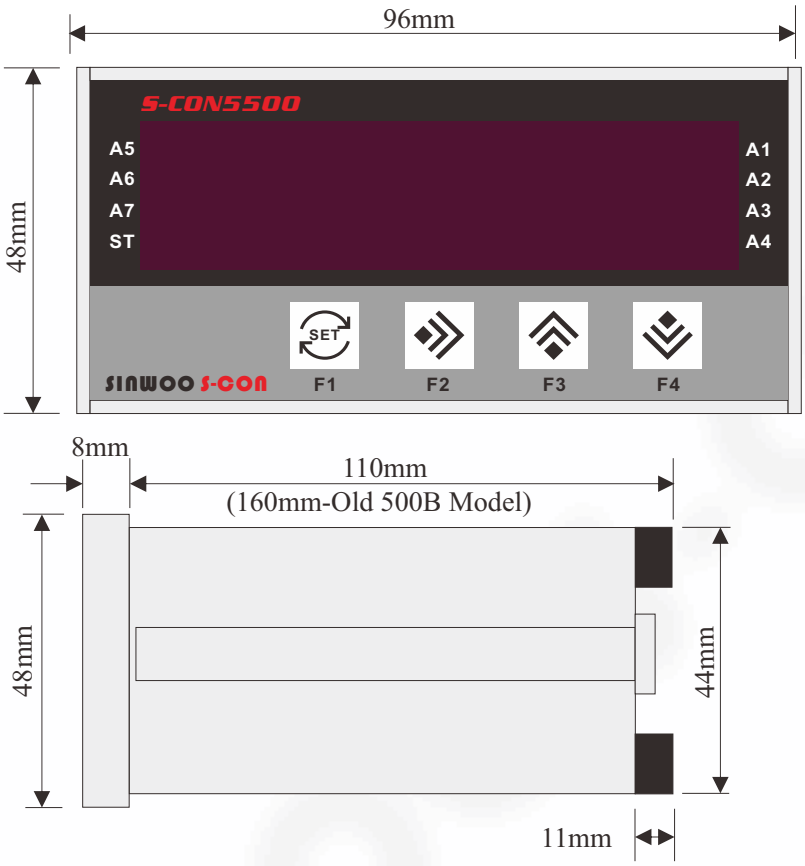
  [007] ADDER(A+B) : Addition of 2 analog inputs
  [008] SUBTRACTOR(A-B) : Subtraction of 2 analog inputs
  [009] MULTIPLIER(A*B) : Multiplication of 2 analog inputs
  [010] DIVIDER(A/B) : Division of 2 analog inputs

  [101] Normal input (B)
  [102] Square Root (B)
  [103] Root Extraction (B)
  [108] SUBTRACTOR(B-A) : Subtraction of 2 analog inputs
  [109] DIVIDER(B/A) : Division of 2 analog inputs

-Counter
  [003] INTEGRATOR (A) : Count of input range by count rate (Count Per Hour).
  [104] INTEGRATOR (B) : Count of input range by count rate (Count Per Hour).

-Peak-Hold
  [004] Peak-Hold(Higher)(A)
  [005] Peak-Hold(Lower)(A)
  [006] Peak-Hold(High/Low)(A)
  [105] Peak-Hold(Higher)(B)
  [106] Peak-Hold(Lower)(B)
  [107] Peak-Hold(High/Low)(B)

DIMENSIONS



MOUNTING REQUIREMENTS