

□ Function & Features

- * **Two Inputs (Input A, Input B)**
(V, mV, mA, Loop Powered, RTD, T/C, Resistance and Potentiometer, ...)-options
- * **Multiple functions**
(Square-root, Adder, Substracter, Multiplier, Divider)-options
- * **Front-programmable**
- * **4-digit LED display**
- * **Analog-Output(Isolated) (mV / V / mA)**
(±10V, ±5V, ±1V, 0~10V, 0~1V, 0~5V, 4~20mA, 0~20mA)-options
- * **4 Points Contact output or Input (Alarm 1~4 or DI 1~4)-options**
- * **Communication Interface (RS-485) standard (Isolated)-options**



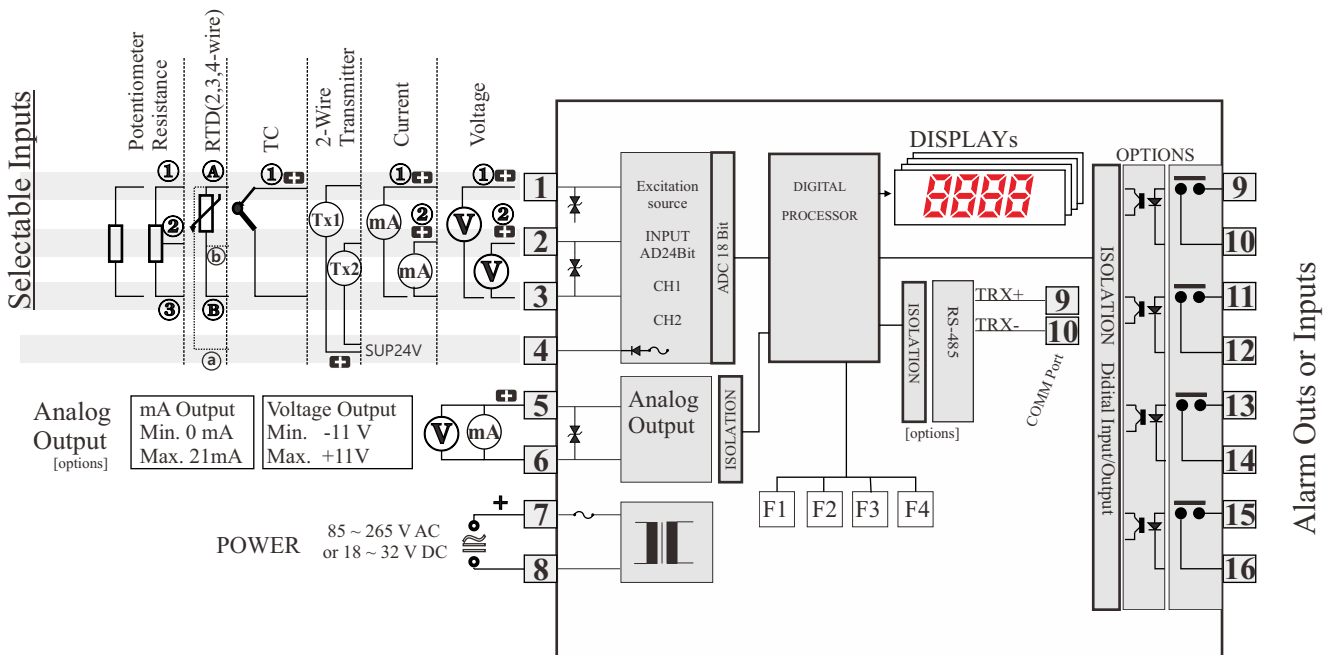
□ GENERAL SPECIFICATIONS

- 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 °C (23 ~ 131 °F)
- Operating humidity : 10 ~ 90 % RH (non-condensing)
- Display range : 4 Digits (-1999 ~ 9999)
- 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")

□ FUNCTION & MODEL

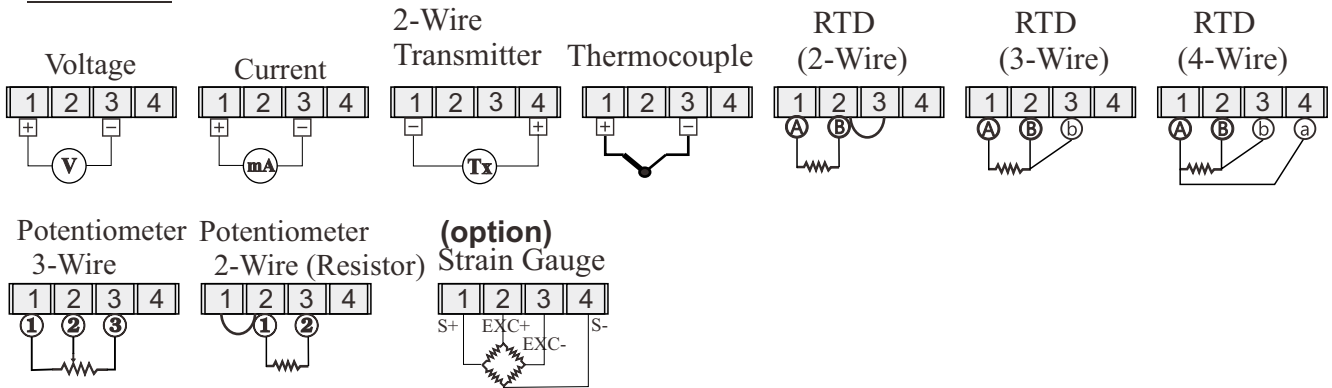
- Display : SCON100-N
- Isolation Analog Output & Alarm outputs : SCON200-N
- Isolation Analog Output & Alarm outputs : SCON300-N

SCHEMATIC CIRCUIT & CONNECTION DIAGRAM

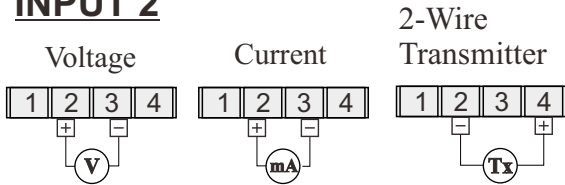


INPUT CONNECTION DIAGRAM

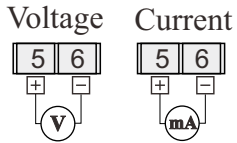
INPUT 1



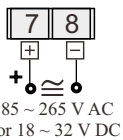
INPUT 2



OUTPUT 1 (option)



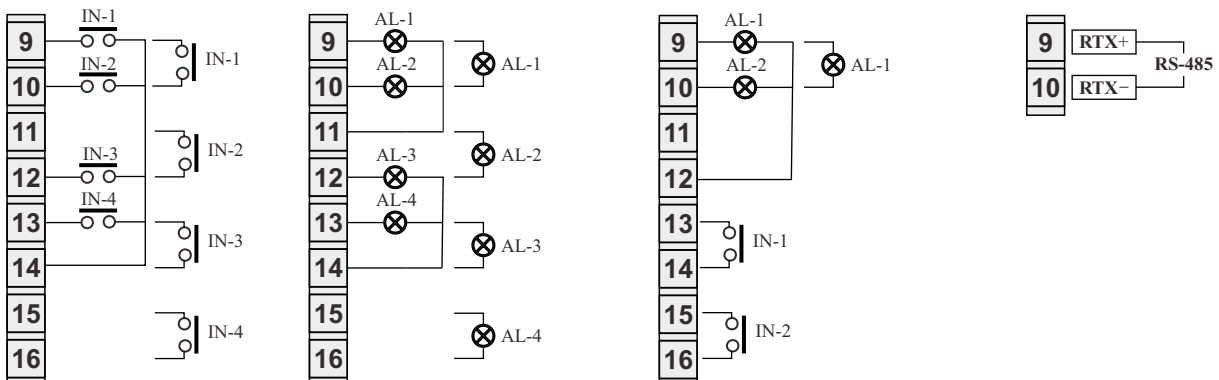
POWER



[OPTION]

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

* 5~7 Input and output is SCON5500 only



MODEL & SUFFIX CODE

SCON -

MODEL

- 100N : Display normal size FND(0.56 inch)
- 200N : 100 + (Alarm outputs & isolated analog output)
- 300N : 100 + (Isolated analog output)
- 000N : Other model

INPUTS (1 , 2) Selection

D : DC Current & Voltage (Input 1, Input 2)

- Current : (Usable range) $\pm 20\text{mA}(\text{max.})$
- Voltage : (Usable range) $\pm 10\text{V}(\text{max.})$
- Millivolt : (Usable range) $\pm 1\text{V}(\text{max.})$

I : - Loop-Powered Current : (Usable range) 4~20mA (1 input)

T : Thermocouples (1 Input)

- K(CA), E(CR), J(IC), T(CC), B(RH), R, S, N

R : RTD (Input 1)

- Pt 100 Ω

P : Potentiometer (1 Input)

- Total resistance 100 Ω ~ 200K Ω

OUTPUT Selection

- N : None
- 1 : 2-Alarm outputs (High & Low)
- 2 : 4-Alarm outputs (H.High, High, Low, L.Low)
- 3 : Analog output with 2-Alarm
- 4 : Analog output with 4-Alarm
- 5 : No Alarm, Analog output
- R : Other Special Spec.

Power Supply

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

Analog Output Selection

- 0 : None
- 1 : DC 1V, 5V, 10V(Max.)
- 2 : DC $\pm 1\text{V}$, ± 5 , ± 10 (Max.)
- 3 : DC 20mA (Max.) (Load Resistance : 0~600 Ω)
- 4 : 2-Wire Transmitter(4~20mA DC) (9V ~ 35V DC)
- R : Other Special Spec.

Relay Contact Output (0:None, 1 ~ 4)

- 00 : None
- Ax : Relay Contact (A1~A4)
- Bx : Photo coupler (B1~B4)
- Rx : Other Special Spec.

Digital Input (0 : None, 1 ~ 4)

- 00 : None
- Ax : Voltage (24V) A1 ~ A4
- Bx : Relay Contact or Open Collector (B1~B4)
- Rx : Other Special Spec.

Communication port

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

Ex.) SCON200N-D2Z3A2000000

FUNCTIONS

- Analog Calculations

- [000] Normal input (A)
- [001] Square Root (A)
- [002] Root Extraction (A)

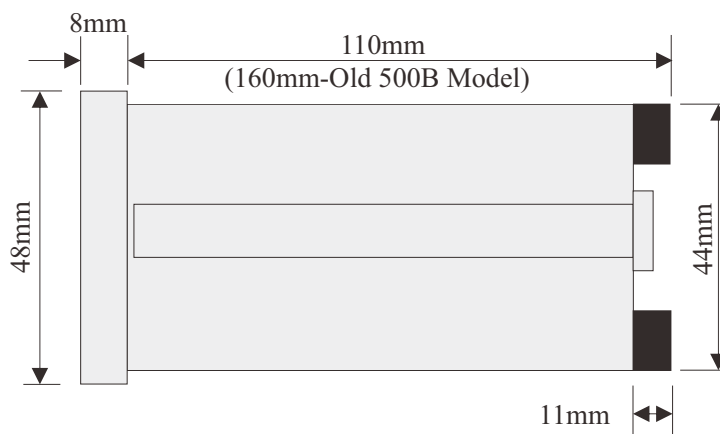
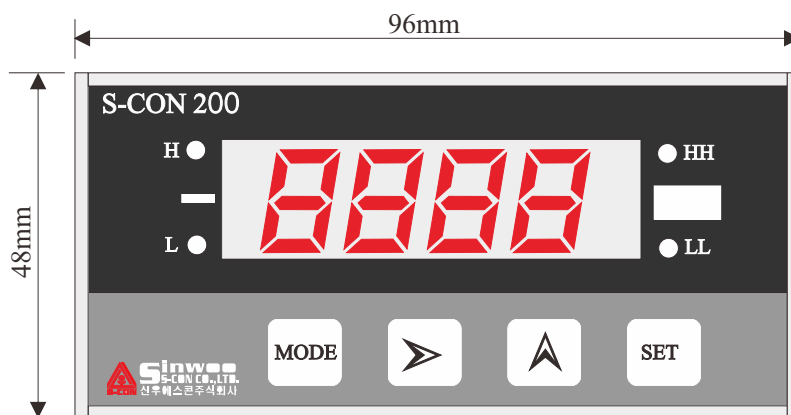
- [007] ADDER(A+B) : Addition of 2 analog inputs
- [008] SUBTRACTOR(A-B) : Subtraction of 2 analog inputs
- [009] MULTIPLIER(A*B) : Multiplication of 2 analog inputs
- [010] DIVIDER(A/B) : Division of 2 analog inputs

- [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

-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

