



Features

- Multiple input signals of T/C, RTD, Volt, mA and 2-wire can be accepted.
- By adopting high-performing and high-accurate 16 Bit A/D converter, excellent reliability is guaranteed.
- With various built-in functions such as Peak Hold, this converter can be applied for various purposes.
- RS485 ModBus communication can be installed, so it is convenient for remote surveillance and control.
- 2 isolated outputs can be installed, and each output can be scaled separately.
- Function of easy input and output signal checking through display mode selection key is provided as a standard.

Input Type

Sensor	Type	Symbol	Scale
T/C	B(PR)	TC-B	0 ~ 1800 °C
	R(PR)	TC- R	0 ~ 1750 °C
	S(PR)	TC- S	0 ~ 1750 °C
	K(CA)	TC- K	-250 ~ 1350 °C
	E(CRC)	TC- E	-199.9 ~ 700.0 °C
	J(IC)	TC- J	-199.9 ~ 800.0 °C
	T(CC)	TC- T	-199.9 ~ 400.0 °C
	N(NN)	TC-N	-250 ~ 1350 °C
RTD	D-Pt100Ω	D-PT	-199.9 ~ 800.0 °C
	J-Pt100Ω	J-PT	-199.9 ~ 500.0 °C
DC Volt	mV	MV	-100 ~ 100mV DC
	1V	1 V	-1.0 ~ 1V DC
	10V	10 V	-10 ~ 10V DC
DC mA	mA	20MA	4 ~ 20mA
	2-Wire	20MA	24V/4 ~ 20mA

Order Information

SCONI - 2000 - - -

Input Signals

Multi	T/C, RTD
	mV, Volt, mA

Output-1 Signals

1	DC 0 ~ 5V
2	DC 0 ~ 10V
3	DC 1 ~ 5V
4	DC 0 ~ 20mA
5	DC 4 ~ 20mA
6	DC 1 ~ 5mA
R	Other

Output-2 Signals

1	DC 0 ~ 5V
2	DC 0 ~ 10V
3	DC 1 ~ 5V
4	DC 0 ~ 20mA
5	DC 4 ~ 20mA
6	DC 1 ~ 5mA
7	RS-485
R	Other
N	Not used

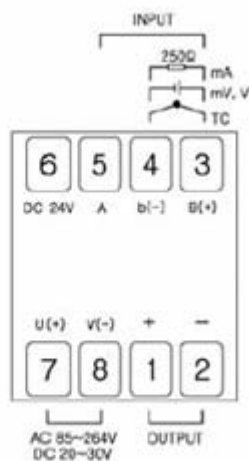
Power Supply

X	AC 85~264V/(50~60Hz)
Y	DC 24V(Option)

□ Specifications

Item	Specification
Input Resistance	Volt Type : 400k Ω , mA Type : 250 Ω
	Others : 1M Ω
Source Resistance	PT100 Ω : 30 Ω /Line, Others : 1k Ω /Line
Sensor Power	DC 24V/80mA, \pm 0.5%
Response Time	100ms(Volt, mA) , 200ms(T/C, RTD)
Communication and Speed (ModBus)	RS 485 (4800, 9600, 19200 and 38400 bps)
	ID(Address) Allocation : 01 ~ 99
	Data Type : 8 Bit Data, Even Parity 1-Stop
	Protocol : ModBus 1.1 RTU
Filtering	NONE(FAST) 4, 8, 16 and 32
Allowable Tolerance	0.2% of Span at 23 $^{\circ}$ C
Linearity	0.1% of Span
Load Resistance	4~20mA DC(0 ~ 600 Ω)
	0~10V DC(1k Ω or more)
Isolation Resistance	More than 100M Ω (1000V DC) among Input and Output
Withstand Voltage	AC 1500V/min between Input, Output and Power
Power Supply	AC 85~264V(50/60Hz), Max. 10VA
	DC 24V \pm 10%, Max. 200mA or 5VA
Ambient Temperature	-10 ~ 60 $^{\circ}$ C
Ambient Humidity	10 ~ 90%
Weight	Appr. 300g(AC/DC)
Material/Color	Non-Flammable ABS / Black
Dimensions	8-Pin : W 48 x H 80 x D 122 (mm)
	11-Pin : W 48 x H 80 x D 130 (mm)
Mounting Type	Wall or DIN Rail

□ Terminal Connection



1 Output

□ Functions

□ Input and Output Data Checking

Input and output signal value(0~100%) checking is always possible by simply setting built-in mode key even without using testers or avometers.

□ Display Scaling(mV, Volt and mA)

To set up display(PV) value according to the changes of scale and input range.

□ Sensor Compensation

To add up or subtract compensation value from measured values when zero point shifted due to a long time use of sensor or an undesirable tolerance occurs due to a long sensor lead.

□ Functioning(mV, Volt, mA)

Limit

To display zero(0) in case input signal disconnected.

Linear

To set up display to ' - '.

Root Square

To display square root value out of output signals.

Square Root

To display squared values of square root input signals.

□ Filtering

None(Fast), 4, 8, 16 and 32

To Filter an undesirable response time or noise in the field.

□ Communication

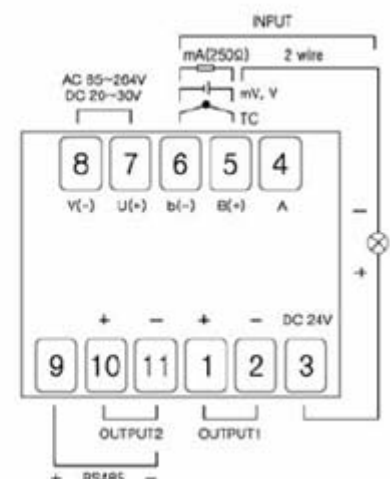
Remote surveillance is possible by communicating with computer when output RS485(ModBus) is installed.

□ Output Scaling

To change output value of current and voltage according to output scale.

□ More Useful Functions

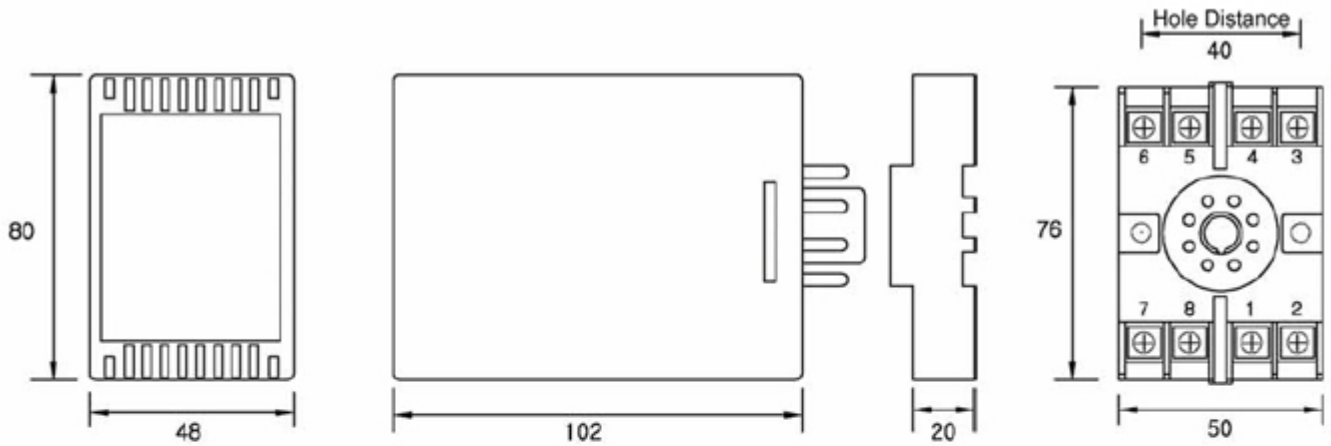
- Checking High or Low Peaks for Input signals is possible.
- Function of external Hold and Reset(Optional).
- Setting up High and Low Peaks for present value.



2 Output

□ Dimensions

8Pin Socket



11Pin Socket

