

Slim Multi Signal Converter SCONI – 7000



Features

- Multiple input signals of T/C, RTD, Volt, and mA can be accepted.
- By adopting high-performing and high-accurate 16 Bit A/D converter, excellent reliability is guaranteed.
- Output values can be limited within a required range as Zero and Span Limit function is integrated.
- Burnout function is integrated, so '----' is displayed and output value becomes 20mA or 10V when temperature sensor disconnected,
- Analog alarm output(Open Collector) can be installed, also, RS 485 communication output can be installed.
- Free voltage AC power supply is available even in slim size.
- Function of easy input and output signal checking through display mode selection key is provided as a standard.

Input Type

	Type	Range	Display
T/C	B(PR)	0 ~ 1820	B00C
	R(PR)	0 ~ 1760	R00C
	S(PR)	0 ~ 1760	S00C
	K(CA)	-200 ~ 1370	K00C
	E(CRC)	-200 ~ 800	E00C
	J(IC)	-200 ~ 1000	J00C
	T(CC)	-199.9 ~ 400.0	T0.C
	N(NN)	-200 ~ 1300	N00C
	PL-II	0 ~ 1390	PL2C
	C(W/Re5)	0 ~ 2315	C00C
RTD	DPT100Ω	-199.9 ~ 850.0	PT.C
	JPT100Ω	-199.9 ~ 500.0	JPT.C
Volt	0 ~ 1V	-1999 ~ 9999	001 V
	0 ~ 5V	-1999 ~ 9999	005 V
	1 ~ 5V	-1999 ~ 9999	105 V
	0 ~ 10V	-1999 ~ 9999	010 V
mA	4 ~ 20 mA	-1999 ~ 9999	420A
	0 ~ 20 mA	-1999 ~ 9999	020A

Order Information

SCONI - 7000 - -

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
R	Other

Output-2 Signals

1	1 Alarm(Open Collector)
2	RS 485
N	Not used

Power Supply

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

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Specifications

Item	Specification
Input Resistance	1~5V DC, 0~10V DC : Min. 100k Ω
	0~1V DC : Min. 1 M Ω
	4~20mA DC, 0~20mA DC : 50 Ω
	Pt 100 Ω , JPt 100 Ω : 10 Ω /Line
	T/C : 100 Ω /Line
Response Time	0.25 Seconds(250mS)
Non-Contact Relay	Open Collector : 24V DC, Max. 0.1A
Communication and Speed	RS 485 (2400, 4800, 9600 and 19200 bps)
	ID(Address) Allocation : 01 ~ 30
	Protocol : ModBus (RTU/ASCII)
Filtering	0 ~ 10 Seconds
Allowable Tolerance	$\pm 0.2\%$ of Span at 23 $^{\circ}$ C (RTD $\pm 0.1\%$)
Linearity	0.1% of Span
Load Resistance	4~20mA DC(Max. 550 Ω)
	1~5V DC, 0~10V DC(Max. 100 Ω)
	0~1V DC (Max. 2k Ω)
Isolation Resistance	More than 100M Ω (1000V DC) between Input and Output
Withstand Voltage	AC 1500V/min among Input, Output and Power
Power Supply	AC 85~264V(50/60Hz), Max. 6VA
	DC 20~28V, Max. 100mA
Ambient Temperature	-10 ~ 60 $^{\circ}$ C
Ambient Humidity	10 ~ 90%
Weight	Appr. 150g(AC/DC)
Material/Color	Non-Flammable ABS / Light Grey
Dimensions	W 22.5 x H 75 x D 100 (mm)
Mounting Type	Wall or DIN Rail

Functions

Display Scaling(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.

Filtering

Filtering range is 0 ~ 10 Seconds.

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.

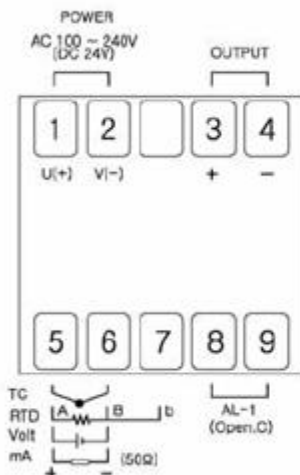
Output Limitation

Output values of current and voltage can be limited within a required range according to output limit scale.

Non-Contact Relay(Open Collector)

1 Point of High or Low Alarm can be installed

Terminal Connection



Dimensions

