

MODEL

SC - RTD

SLIM TYPE RTD TEMPERATURE CONVERTER



This is a converter used for converting to DC signal by using input source of RTD temperature sensor. With built-in noise removal filter, transfers correct signal, and precision isolation circuits enable perfect signal transfer not affected by withstand insulation voltage, transfer speed, noise, etc.

본 변환기는 RTD 온도 SENSOR로부터 직류신호로 변환하는 변환기입니다,
직선성 보상회로를 내장하여, SENSOR의 비직선 오차를 보상하였으며, ISOLATION 회로를 채용, 절연내압, 전달속도, NOISE등의 영향없는 완벽한 신호변환을 가능하게 합니다.

FEATURES

Small size(mm) : 75(H), 22.5(W), 100(D).
Isolation : input to output to power supply
Power supply : AC or DC supply.
Wiring : terminal wiring.
Case & color : gray Polyamide UL 94. V2.
Weight : about 100g

INPUT SIGNAL SPECIFICATION

Input type : 3wire type.
Input signal : Pt50ohm or Pt100ohm
Input range : -200 ~ 600'C
EXT current : 1.5mA/5VDC

OUTPUT SIGNAL SPECIFICATION

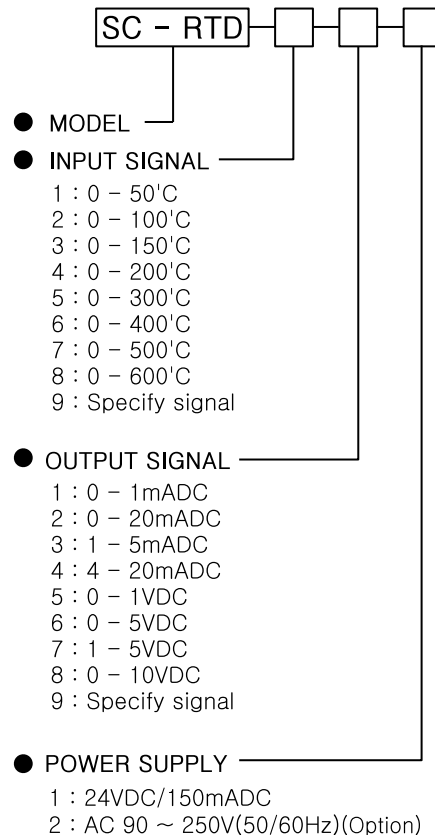
Output voltage signal : 12VDC max.
Output voltage impedance : 2Kohm min.
Output voltage noise : 10mV p-p max.
Output current signal : 30mADC max.
Output load resistance : 750ohm max.
Output current noise(250ohm load) : 10mV p-p.

OUTPUT	IMPEDANCE	OUTPUT	LOAD - R
0 - 1VDC	> 1Kohm	0 - 1mA	< 15Kohm
0 - 5VDC	> 2Kohm	0 - 20mA	< 750ohm
1 - 5VDC	> 2Kohm	1 - 5mA	< 3Kohm
0-10VDC	> 4Kohm	4 - 20mA	< 750ohm

GENERAL SPECIFICATION

Operating ambient temperature : 0 - 50'C.
Non operating ambient temperature : -20 ~ 80'C.
Temperature coefficient : 0.02%/°C
Operating ambient humidity : 90% RH max.(non condensing)
Insulation resistance : greater than 100Mohm with 500VDC.
Dielectric strength : 1500VAC @ 1minute (input to output to power).
Adjustment range : 20% (zero & span) min.
Conversion accuracy : 0.15% max.
Response time : 0 - 90%(0.5sec).

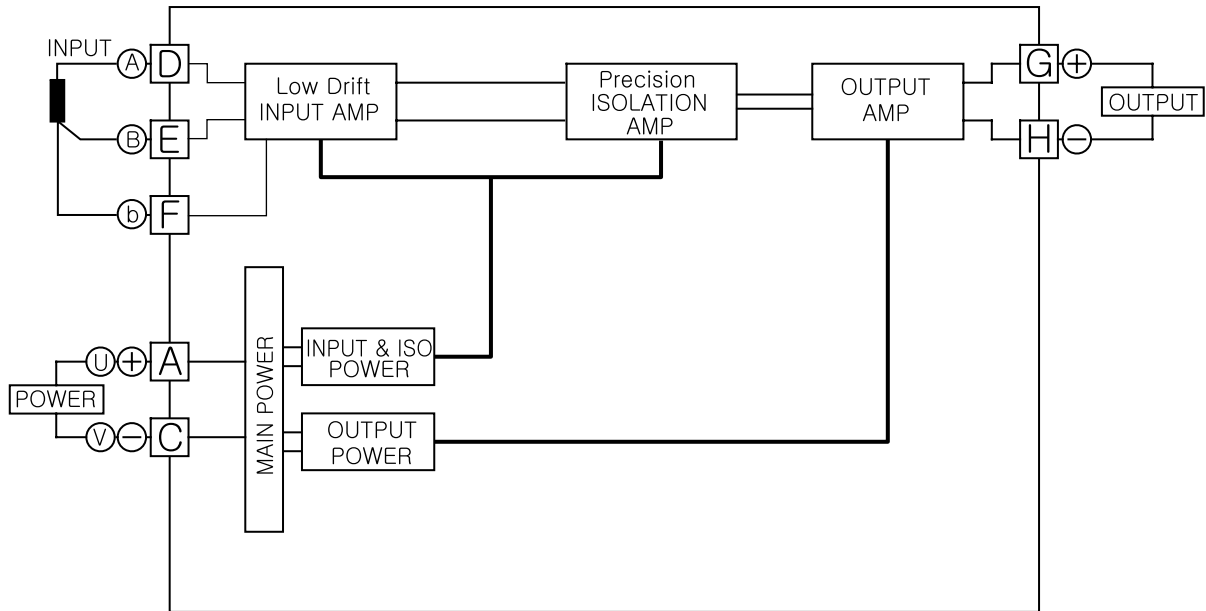
MODEL & SPECIFICATION CODE



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■ BLOCK DIAGRAM & PIN CONNECTION



■ EXTERNAL DIMENSION

DIMENSION'S (mm)

