

19 INCH RACK-TYPE

SRN – Series



RACK-MOUNTED SIGNAL CONVERTER

Introduction

SRN series is a converter that accepts a signal or sensor input and provide one or two independent and isolated DC outputs.

Information

- Isolation between control room and field instrumentation.
- 1 or 2 outputs are available from 1 input
- Contains overvoltage protection circuit.
- Transformer isolation type.
- 19 " Rack Mounting

MODEL & SUFFIX CODE SELECTION

MODEL	A:SRN-ISO(Analog Input) B:SRN-IPS(2-Wire Current Loop) C:SRN-RTD(RTD Input) D:SRN-PMC(Potentiometer Input)			
INPUT	A: 1~5V B:4~20mA C: DC 24V(4~20mA) D:Potentiometer E: Pt 100Ω (Temp range must be specified)			
OUTPUT 1	A:1~5V B:4~20mA C:Other			
OUTPUT 2	A: 1~5V B:4~20mA C: Other O:None			
POWER	U : AC 100V X : AC 24V V : AC 110V Y : DC 24V W: AC 220V Z : Other			

GENERAL SPECIFICATIONS

PARTICULAR	REPORT		
Capacity	10 positions		
Isoation/Type	Input to output to power/Transformer isolation type		
Power Supply	AC rating ±10%, approx. 3,5VA DC rating ±10%, (ripple 10%)100mA		
Accuracy	±0.15%(Max) except RTD ±0.25%		
Temp Coefficient	±0.015% / °C(±0.008%/°F)		
Linearity	±0.02% F,S		
Insulation Resistance	Greater than 100MΩ with DC 500V		
Dielectric Strength	Input – Power	AC 2500V	1 minute
	Input – Output		
	Output 1 – Output 2	AC 1000V	
	GND – Power		
Front Adjustments	Zero and Span ±5%		
Overrange Output	approx.–10% ~ 110% at DC 1~5V		
Response Time	less than 0,5 sec (0~90%)		
Operating Temperature/Humidity	–20~60℃ / 90%(N.C)		
Storage Temperature/Humidity	–20~80℃ / 95%(N.C)		
Case Material	Aluminum(silver)		
Weight	about 5kg		
Mounting	Wall & Rack Panel mounting		

SIGNAL TRANSMITTER

SRN-SERIES

INPUT & OUTPUT SPECIFICATIONS

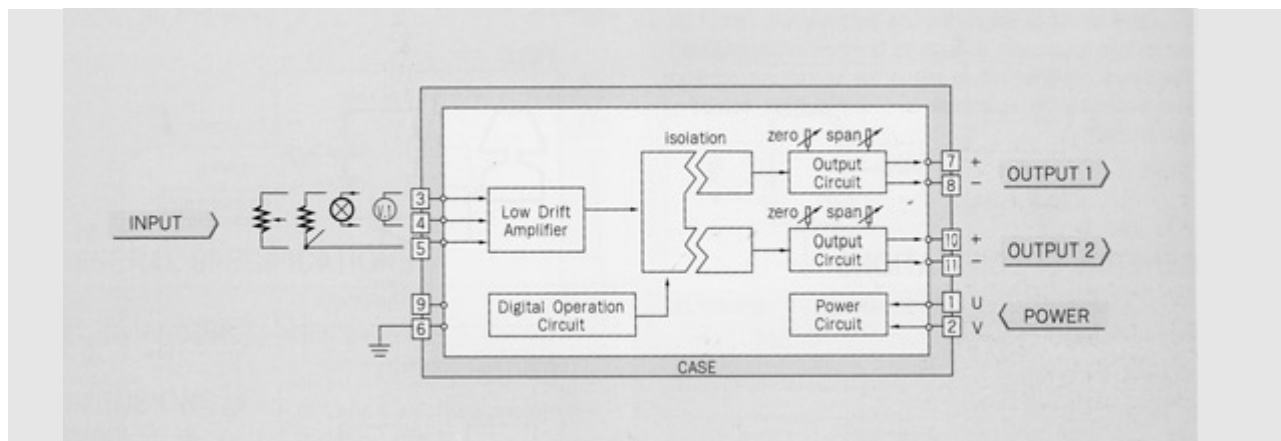
Input Impedance

SIGNAL		Im Pedance
1~5V	Input impedance	1M Ω (Min)
4 ~20mA		250 Ω
2-Wire Current loop	supply range	DC 24V~28V(no load)
	Current rating	22mA(Max)
	current limited	30mA(Max)
RTD(Pt 100 Ω)	Sensing current	DC 2mA
	Usable range	-200 $^{\circ}$ C ~ 600 $^{\circ}$ C(-328 $^{\circ}$ F~1112 $^{\circ}$ F)
Potentiometer	Max resistance	100 Ω ~10K Ω

Output Load Resistance

SIGNAL	1 Point	2 Point		Remark
	Output	Output-1	Output-2	
4 ~ 20mA	700 Ω	600 Ω	350 Ω	(Max)
1 ~ 5V	5k Ω	5k Ω	5k Ω	(Min)

BLOCK DIAGRAM



DIMENSIONS(SCALE : mm)

