

SIGNAL CONVERTER

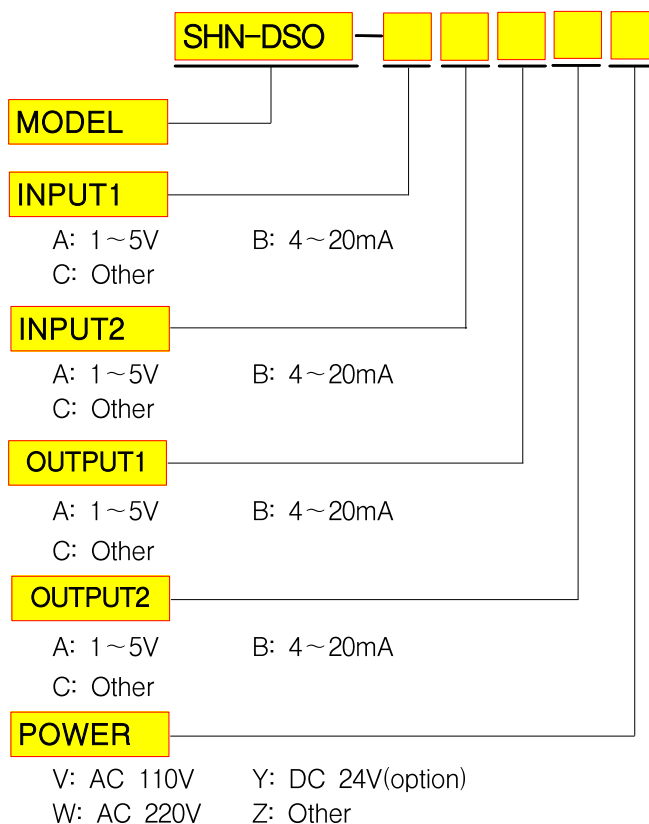
SHN-DSO



A converter is used to distribute DC signal in isolated condition.

- Isolation between control and field instrumentation.
- Contains overvoltage protection circuit.
- Transformer isolation type.
- 2 Input to 2 output type converter.
- Contains lightning arrester device.

MODEL & SUFFIX CODE SELECTION



GENERAL SPECIFICATIONS

Isolation type	Input to output to power/Transformer Isolation type		
Power Supply	AC rating $\pm 10\%$, 3.5VA		
	DC rating $\pm 10\%$, (ripple 10%) 100mA		
Accuracy	$\pm 0.1\%$ (max)		
Temp Coefficient	$\pm 0.015\%/^{\circ}\text{C}$		
Linearity	$\pm 0.02\%$ F.S		
Insulation Resistance	Greater then 100M Ω with DC500V		
Dielectric Strength	Input-Power	AC2500V	1 minute
	Output-Power		
	GND-Power	AC1000V	
Front Adjustments	Zero and Span $\pm 5\%$		
Overrange Output	approx $-10\% \sim 110\%$ at DC1~5V		
Response Time	≤ 0.5 sec(0~90%)		
Operating Temperature/Humidity	0~60 $^{\circ}\text{C}$ /90%(N.C)		
Storage Temperature/Humidity	$-20 \sim 80^{\circ}\text{C}$ /95%(N.C)		
Dimensions	W50×H85×D133(mm)		
Case Material	ABS Resin(black)		
Weight	about 400g		
Mounting	Wall mounting type		

INPUT & OUTPUT SPECIFICATIONS

■ OUTPUT LOAD RESISTANCE

■ INPUT IMPEDANCE

Input	Impedance
Current	250 Ω
Voltage	1M Ω (min)

Output	Load resistance
4~20mA	700 Ω (max)
2~10mA	1200 Ω (max)
1~5V	5000 Ω (min)
0~1V	1000 Ω (min)

PROTECTION DEVICE SPECIFICATIONS

Discharge Voltage	btwn lines	DC28V~30V or more
	btwn lines & GND	255V~345V
Typical Response Time		0.1 μ s or less
Discharge Current		3000A (8 $\times$ 20 μ s)
Impulse Life		300times (8 $\times$ 20 μ s/100A)

BLOCK DIAGRAM

