

Thermocouple input Module

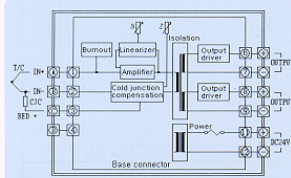


DC2001 Thermocouple input module is a high accuracy converter which accepts various thermocouples as input signal and do cold-junction compensation, amplification linearizer compensation according to temperature signal and converts it isolated 2 channel DC output signal

- ◆ cold-junction compensation, linearizer, burn-out function.
- ◆ Base type with easy maintenance and high density mounting rate.
- ◆ Isolation between input and output and between output 1 and output 2
- ◆ Embedded fuse on power line.

◆ BLOCK DIAGRAM

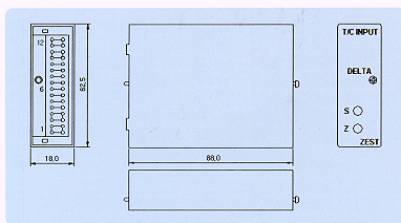
◆ ORDERINT CODE



Model	Suffix code	Detail
DC2001	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Compact converter
Input signal	K	T/C K type
	J	T/C J type
	T	T/C T type
	R	T/C R type
Output signal Output 1/Output 2	F	1~5V DC/1~5V DC
	E	0~5V DC/0~5V DC
	7	1~5V DC/4~20mA DC
Burnout	U	Upscale
	D	Downscale

※ Please specify the input range when you order

◆ DIMENSIONS



◆ MODEL : DC2002

◆ SPECIFICATIONS

I N P U T	Input type (Specify when ordering)	R, T, D (JP1100Ω, Pt100Ω)			
	Input range (Specify when ordering)	0~50°C, 0~100°C, 0~150°C, 0~200°C, 0~250°C, 0~300°C 0~400°C, 0~500°C, -20~80°C, -50~50°C, -50~150°C, 50~100°C			
	Sensor current	Approx. 2mA			
	Max. lead resistance	50Ω or less			
	Burnout protection	Upscale			
O U T P U T	Output type (Specify when ordering)	OUTPUT - 1	1 ~ 5V DC	0 ~ 5V DC	1 ~ 5V DC
		OUTPUT - 2	1 ~ 5V DC	0 ~ 5V DC	4 ~ 20mA DC
	Load resistance	Voltage output : Output drive 2mA maximum (e.g. 1~5V : 2500Ω [5V/ 2mA]) Current output : Output drive 7V maximum (e.g. 4~20mA : 350Ω [7V/20mA])			
	Zero adjustments	± 2%			
	Span adjustments	± 2%			
P E R F O R M A N C E	Accuracy	± 0.15% of span (25°C ± 5°)			
	Temp. coefficient	± 0.02% / °C			
	Response time	500msec or less (0 ~ 90%)			
	Line voltage effect	± 0.1% with 10% change			
	Insulation resistance	Between input and output1 and output2 and power:100MΩ or more at 500V DC			
	Dielectric strength	Between input and [output1/output2/power]		: 1 minute at 1500V AC	
	Between output 1 and output2 and power		: 1 minute at 500V AC		
G E N E R A L	Power supply	24V DC ± 10%			
	Power consumption	50mA or less			
	Power fuse	2.2Ω 1/4W fuse resistor			
	Operating temperature range	0~50°C			
	Operating humidity	45~85% RH (No condensation)			
	Storage temperature range	-10~60°C			
	Storage humidity	95% RH (No condensation)			
	Dimensions	W18 x H62.5 x D88 mm			
Weight	Approx. 100g				

※ NOTE