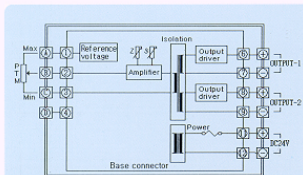# Potentionmeter Module

SC2005 Potentionmeter module is high accuracy converter which converts 3-wire pontentionmeter's resistence (100 Ω ~10㏀) to isolated 2 channel DC output sognal

◆ Base type with easy maintenance and high density mounting rate
◆ isolation between input and output and beween and output 1 and output 2
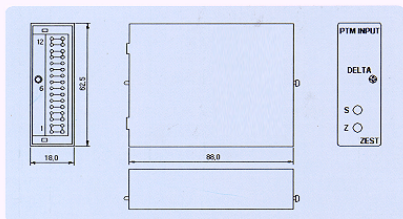◆ Emdeded fuse on power line.

◈ BLOCK DIAGRAM

◈ ORDERINT CODE

Model	Suffix code		Detail
DC2005 —	☐	☐	Compact converter
Input signal	**1**		100Ω — 10KΩ
Output signal Output1/Output2		**F**	1~5V DC/1~5V DC
		E	0~5V DC/0~5V DC
		7	1~5V DC/4~20mA DC

※ Please specify the input range when you order

◈ DIMENSIONS

◈ MODEL : DC2005
◈ SPECIFICATIONS

INPUT	Input type	potentiometer resistance			
	Input range (Specify when ordering)	100 Ω ~10㏀			
	Sensor current	Approx. 1mA			
	Max. lead resistance	10 Ω or less			
OUTPUT	Output type (Specify when ordering)	OUTPUT-1	1~5V DC	1~5V DC	1~5V DC
		OUTPUT-2	0~5V DC	1~5V DC	4~20mA DC
	Load resistance	Voltage putput:output drive 2mA maximum(e.g. 1~5V:2500 Ω [5V/2mA]) Cirrent output drive 7V maximum(e.g. 4~20mA:350 Ω [7V/2mA])			
	Zero adjustments	0~30%			
	Span adjustments	80~110%			
PERFORMANCE	Accuracy	±0.15% of span(25℃ ±5℃)			
	Temp. coefficient	±0.02% /℃			
	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:100㏁ or more at 500V DC			
	Dielectric strength	Between input and [output1/output2/power] : 1minute at 1500V AC Between output1 and output2 and power : 1minute at 500V AC			
GENERAL	Power supply	24V DC ± 10%			
	Power consumption	50mA or less			
	Power fuse	2.2 Ω 1/4w fuse resistor			
	Operating temperature range	0~50℃			
	Operating humidity	45~85% RH (No condensation)			
	Storage temperature range	−10~60℃			
	Storage humidity	95% RH (No condensation)			
	Dimensions	W18×H62.5×D88㎜			
	Weight	Approx. 100g			

※NOTE