

SIGNAL ISOLATOR FOR 4- 20 mA INPUT

MCP4 SI SP

MCP4 SI DP

MCP4 SI DX

FEATURES

- ◆ Rugged and Accurate
- ◆ Three port Isolation
- ◆ 0.1 % calibrated Accuracy
- ◆ Built-in Trasmmitter Powering
- ◆ Tolerates High Supply Variations
- ◆ Choice of 4 -20 mA / 1-5 V Outputs
- ◆ Front Panel Zero, Span Potentiometer
- ◆ Single port, Dual Port and Duplex Isolator
- ◆ Din rail / Back Panel Mounting



About MCP4 SI

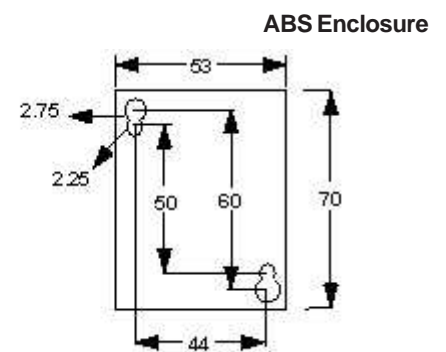
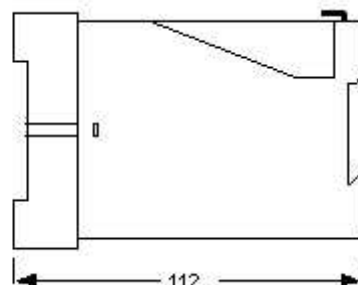
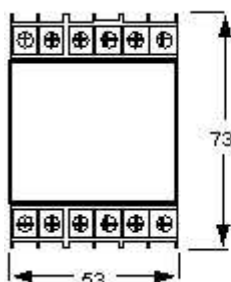
MCP4 SI Signal Isolators are specially designed to suit the needs of chemical, Petro chemical, Fertilizer, Off shore, pulp & paper, thermal & nuclear power generation Industries.

They Protect expensive instrumentation system from dangerously high common mode voltages and eliminate ground loop problems encountered in field signals. The outputs can also be grounded if needed.

MCP4 SI provides three port Isolation by electrically isolating the input, output and supply ports from each other and thus enhances system safety. Duplex version offers two independent isolators in one housing. Output of 4-20mA or 1-5 V proportional to input is offered with easily accessible zero, span trimmers.

A trafo unit is offered to power isolators in places where only a 110 / 220 V AC is available.

DIMENSIONS : In mm and not to Scale



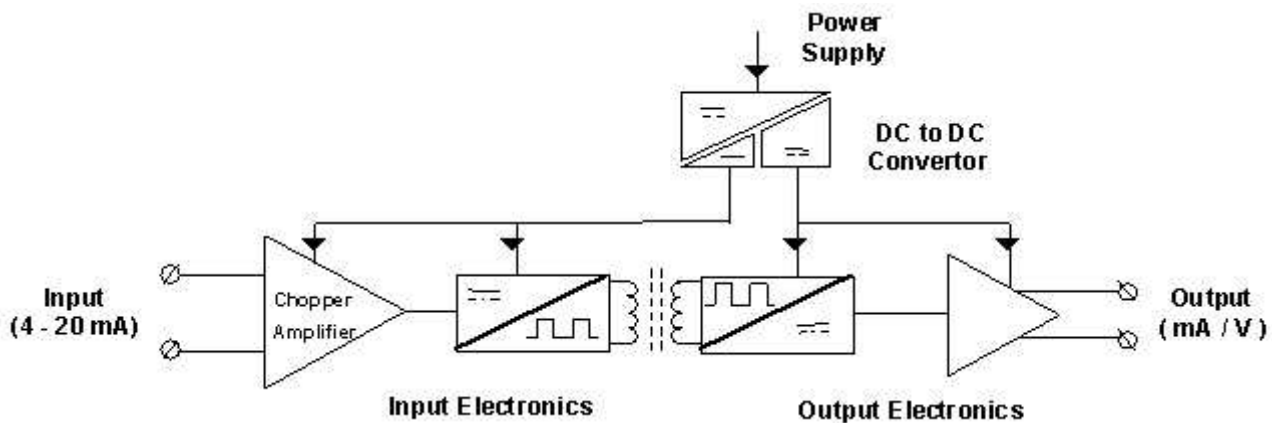
GENERAL SPECIFICATIONS

Supply	: 20-35V DC or 15-25V AC, 50Hz	Storage Temp.	: 0 to 70 °C.
Power Consumption	: Single port : 2 W (approx) Dual & Duplex : 4 W (approx)	Humidity	: 0-90% (Non Condensing).
Operating Temp.	: 0 to 55 °C.	Housing	: ABS Enclosure
		Mounting	: DIN rail or Back Panel

PERFORMANCE SPECIFICATIONS

Input	: 4 - 20 mA DC	Accuracy	: $\pm 0.1\%$ of Span
Input Resistance	: 50 Ω max. for Single & Duplex Types. 100 Ω max. for Dual Port Type.	Isolation Voltage	: 1.2 KV DC / AC Peak
Output	: 4 - 20 mA / 1 - 5 V	Isolation Type	: Three Port
Load Resistance	: 850 Ω max for 4-20mA Outputs 2 K Ω min. for 1 - 5 V Outputs	Input Channels	: 2 for DUPLEX Model
Transmitter Powering	: 21 to 24 V DC 40 mA (max.)	Output Channels	: 2 for DUPLEX Model & DUAL PORT Type
		Effect of change in Ambient Temp.	: Span : ± 100 ppm / °C Zero : ± 100 ppm / °C

FUNCTIONAL SCHEMATIC



ORDERING INFORMATION

MODEL ¹	DESCRIPTION
MCP4 SI SP	Single Output Port
MCP4 SI DP	Dual Output Ports for Single Input
MCP4 SI DX	Duplex (Two Single port Isolators in one housing)

Note 1 : User has to specify the Output Type 4 - 20 mA / 1 - 5 V while Ordering

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Specifications are subject to change without any notice due to continuous development.