

FEATURES

- ✦ Bi-polar I/P & O/P
- ✦ Dual Redundant Hardware
- ✦ High Input Impedance
- ✦ Wide Bandwidth - 5KHZ
- ✦ Independant Power Supply CKTS
- ✦ Three Port Isolation
- ✦ Enhanced Reliability
- ✦ Short Circuit Protected Outputs.
- ✦ Excellent DC and A.C. Performance



About ISO-D-10

ISO D-10 is an analog signal conditioner from MCIH offering Galvanic Isolation between I/P, O/P and Power Supply.

ISO D-10 is designed with I/P buffer to give high input impedance. The Isolation barrier is specially engineered to offer minimum barrier capacitance and high insulation resistance, in order to withstand high common mode voltages.

The Dual Channel of the isolator are Physically two different entities, and hence even the power supply circuit failure of one of the channel will not affect the other. Hence the perfect "Y" signal chain concept is realised by design.

ISO-D-10 employs the state of the art monolithic Isolation Amplifier, as its core and hence the reliability of the instrument is at its best.

GENERAL SPECIFICATIONS

Power Supply : 24 V \pm 10% DC/ 200 mA

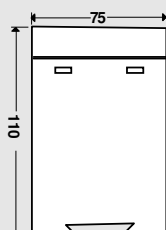
Operating Temp : 0 to 55 °C.

Storage Temp : 0 to 70 °C.

Humidity : 0-90% (Non Condensing).

Mounting : Back panel / Din rail 35mm - tophat.

DIMENSIONS : In mm and not to scale



ABS Plastic enclosure

PERFORMANCE SPECIFICATIONS

DUAL INPUT - INTERNALLY PARALLELED

Voltage : $\pm 0 - 10\text{V DC or A.C.}$
Bandwidth : $\text{DC} - 5 \text{ KHZ.}$
Accuracy : $\pm 0.03 \% \text{ of Span.}$
Linearity : $\pm 0.01\% \text{ of Span.}$
Input Impedance : $>1 \text{ M}\Omega$

OUTPUT

No. of Outputs : TWO
Voltage : $0 \text{ to } \pm 10\text{V DC} - \text{Bi-polar}$
Impedance : 1Ω
Output Noise : $< 2 \text{ mV rms}$
Temp.Coeff.of O/P : $\pm 50\text{PPM (Span)}$
 $\pm 50\text{PPM (Zero)}$
Protection : Short ckt protected - Continuous

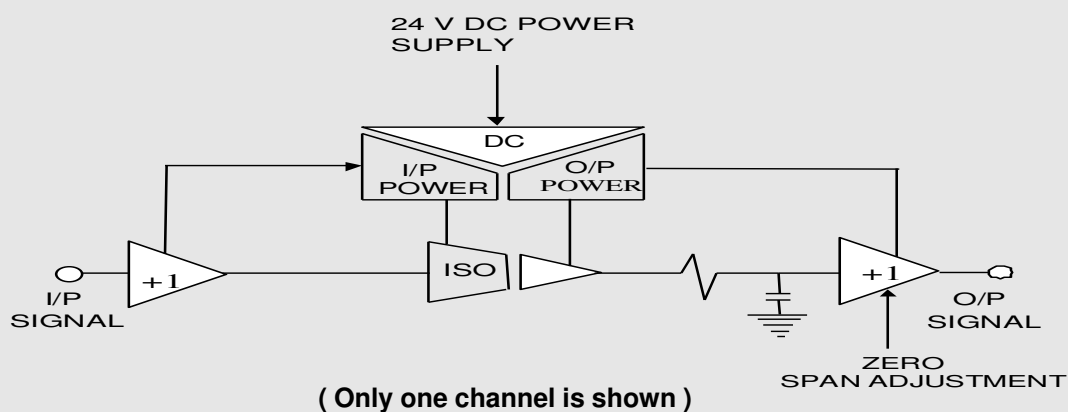
MUTUAL ISOLATION

Between Input, Power Supply and Output ports 1500V DC/AC Peak

CMRR : $>120 \text{ db @ CMV } 1000\text{V AC rms}$

ENCLOSURE : DIN rail Mounting, Plastic
Dimension : $55 (\text{W}) \times 75 (\text{H}) \times 110 (\text{D})$

FUNCTIONAL SCHEMATIC



ORDERING INFORMATION

Power Supply	No. of Outputs	Model No.
24 V $\pm 10\%$ DC/200 mA	ONE	ISO - S -10
	TWO	ISO - D-10

MCIH

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Specifications are subject to change with out any notice due to continuous development.