

# MODEL 1122 SIGNAL ISOLATOR WITH DUAL OUTPUTS

- ☺ Dual Outputs
- ☺ Sink or Source
- ☺ 3 x On Board 24V PSU
- ☺ Compact Size
- ☺ Low Cost
- ☺ Plug In

The model 1122 is a signal isolator designed to eliminate ground loop problems in 4-20mA control loops, however it can also be used in other applications where galvanic isolation is required.

The unit is a compact, mains powered 11 pin plug-in module containing the electronics and three isolated 24V DC power supplies for 1 x input and 2 x output loops. This enables the model 1122 to be used with both mains and/or loop powered transmit and receive instruments without the necessity of adding extra power supplies. Input and output power supplies are all current limited at 25mA.

Isolation is achieved by the use of linear optocouplers with a working voltage of 1400 volts peak. Two separate mains transformers are used to ensure maximum isolation between input and outputs.

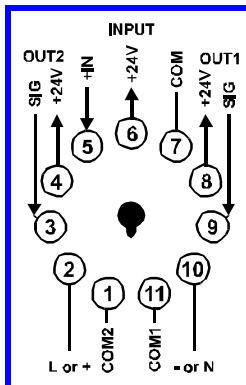
The tracking accuracy of this configuration is better than 0.25% of span.

To special order the inputs and outputs can be calibrated to different ranges. Eg. Input = 0~20mA, output 1 = 4~20mA, output 2 = 1~5mA.

Separate zero and span adjustments are provided for each output.



## CONNECTIONS

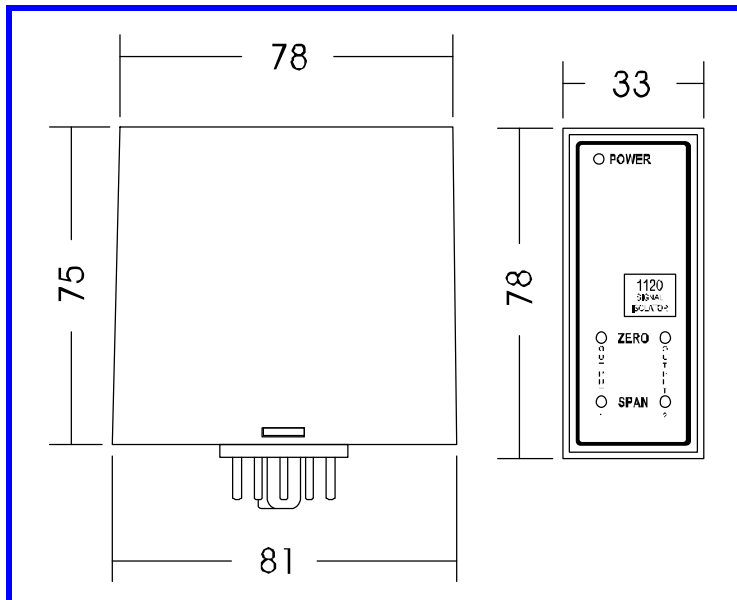


## SPECIFICATIONS

20041201

INPUT SIGNAL	mV, Volts, mA
Options	To customer order
OUTPUT SIGNAL	0~1mA, 0~10mA, 0~20mA,
Options	4~20mA, 1~5V, 0~10V To customer order
POWER SUPPLY	115V 50/60Hz
Options	230V 50 Hz 24V DC (Isolated)
POWER CONSUMPTION	8VA max
INPUT IMPEDANCE	10ohm for 20mA 39ohm for 5mA >100K for voltage
OUTPUT DRIVE IMPEDANCE @ 20mA	>1000 ohms
ACCURACY	< 0.25% FS
ISOLATION VOLTAGE	
Continuous	375V Peak
1 Second	1000V Peak
Operating Temperature & humidity	-5~+50°C 0~90% RH Non Condensing

## DIMENSIONS



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