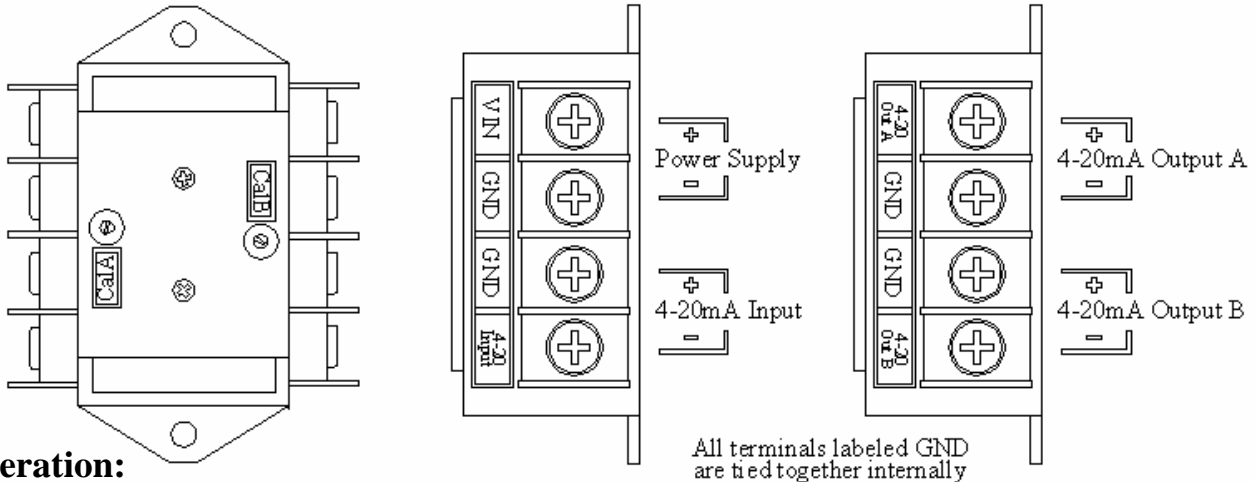


4-20mA Current Splitter

01-632.DOC



Operation:

This device is designed to split a single 4-20mA input signal into two separate *non-isolated* 4-20mA current loop outputs which mirror the input. Separate calibration adjustments are provided for each output channel that can be used to change the output spans independently. Use a sensor, current source or process calibrator to inject current into the 4-20mA input terminals, and adjust the potentiometers with a small screwdriver until the desired output currents are achieved. Adjust the span at the highest practical current for maximum accuracy. The calibration adjustments for the two channels do not affect each other, and can be done separately at any time without affecting the other output.

Installation Notes:

The 4-20mA input is not isolated from the two outputs and the two outputs are not isolated from each other; all must share a common circuit ground. To prevent excess noise and ground loops, this splitter is recommended for transmitting short distances only, typically less than 10 feet. All circuit grounds between devices must be tied together with connections between devices as short as possible, as well as any other wiring associated with this device. The terminals labeled "GND" are internally connected together; do not use this device to interconnect high ground currents from other equipment. This unit is sealed in epoxy resin; but it is recommended for indoor use only, or where a weatherproof enclosure is available. The aluminum heatsink is not connected to any internal signals but it can get hot under certain conditions, especially when operating at 24 volts or more with high output currents. It should remain open to some ventilation and not be touched by wiring or other system components.

Specifications and Absolute Maximum Ratings:

Power Supply Voltage:	10-30VDC
Supply Current:	15mA plus output currents
Input Current Range:	0.1-24mA
Input Impedance:	50ohms
Output Current Accuracy:	+/- 0.1% of span
Response Time:	1mS Typical
Output Adjust, 20mA Input:	19-21mA Typical
Output Load:	50-350ohms (Supply = 10-30VDC) 0-500ohms (Supply = 12-24VDC)
Operating Temperature:	-40°C to +70°C, (-40°F to +158°F)
Dimensions:	7.6cm x 7.1cm x 2.9cm, (3.0" x 2.8" x 1.2")
Weight:	96 grams, (3.4 Ounces)



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