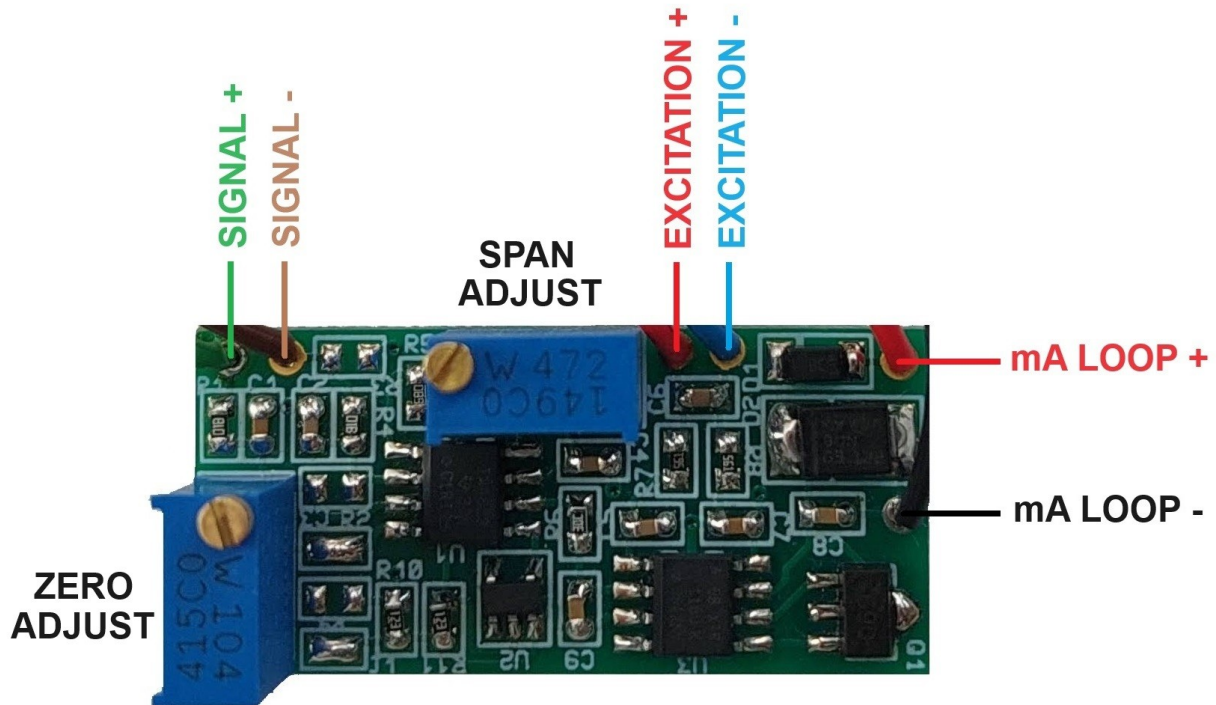


LT1510

Loop Powered 4-20mA Load Cell Amplifier

Manual – English 1.00



Introduction

The LT1510 provides precision electronic circuitry to convert a load cells output to a 2-wire loop powered 4-20mA current loop.

Zero and Span trim potentiometers are provided for fast field calibration.

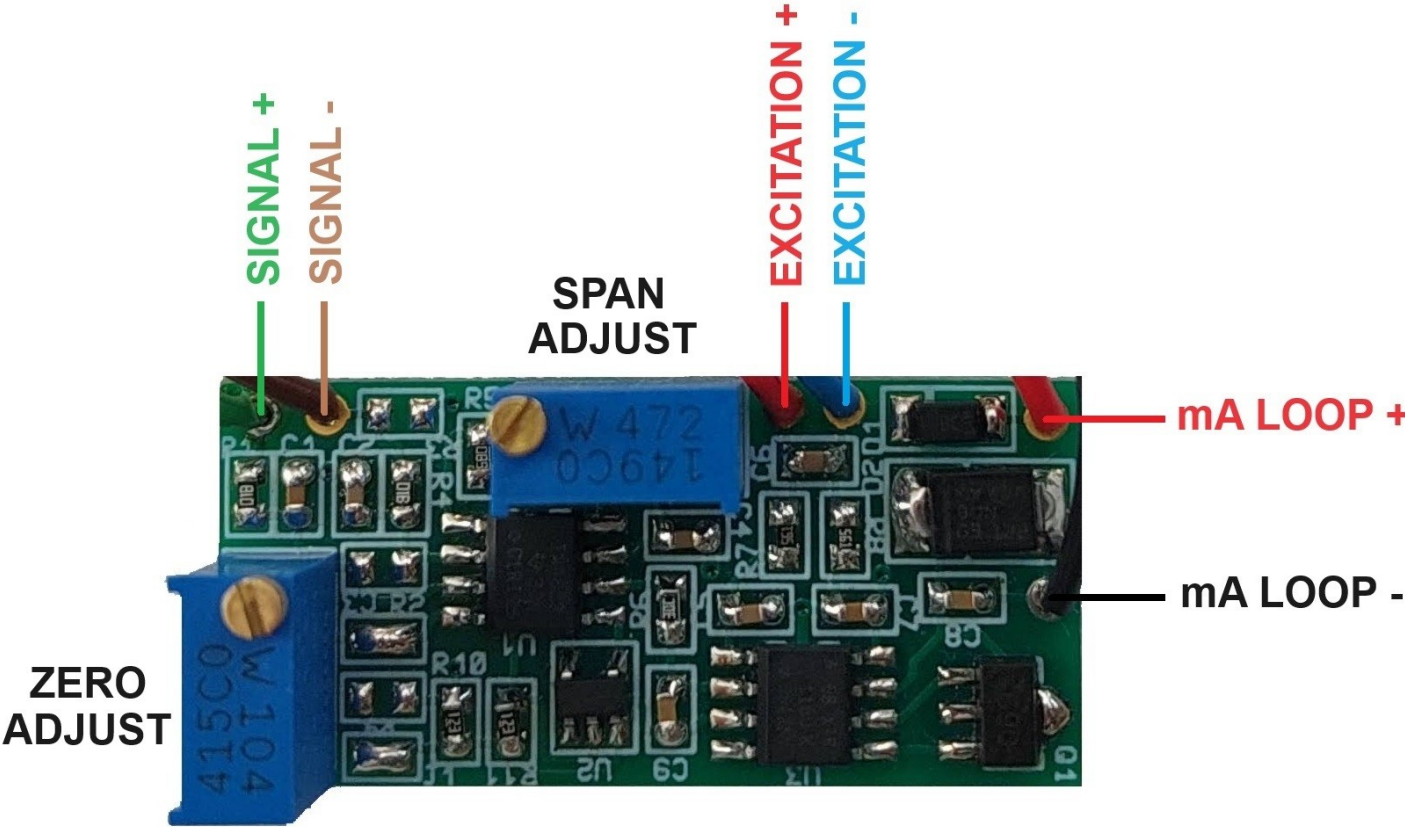
1 Features

- Provides a 2-Wire 4-20mA current loop output
- 4-20mA Loop powered
- 350, 700 or 1000 Ohm load cell amplifier
- 25 turn Zero and Span trim potentiometers for fast calibration
- Supply voltage range of 10 to 28V
- Reverse polarity and over voltage protected
- Wide temperature range -40°C to + 85°C
- 1 year limited warranty

2 Specifications

Dimensions	36x17x15mm (1.42x0.67x0.59") (To top of potentiometers)
Supply Voltage Range	10 to 28V, Typical 24V Reverse polarity and over voltage protected
Output Current Range	4-20mA
Zero Adjustment	+ -5% FS
Span Adjustment	+ -7.5% FS
Bridge Impedance	1000 Ohm (Recommended). 350, 700 Ohm
Bridge Sensitivity	1mV/V (1000 Ohm load cell). 2mV/V (350 Ohm load cell).
Bridge Excitation	Approx. 2.5V (1000 Ohm load cell). Approx. 0.9V (350 Ohm load cell)
Operating temperature	-40°C to 85°C (-40°F to 18°F)

3 Connection Diagram



4 Notice

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5 Warranty

This product carries a warranty for a period of one year from date of purchase against faulty workmanship or defective materials, provided there is no evidence that the unit has been mishandled or misused. Warranty is limited to the replacement of faulty components and includes the cost of labor. Shipping costs are for the account of the purchaser.

Note: Product warranty excludes damages caused by unprotected, unsuitable or incorrectly wired electrical supplies and or sensors, and damage caused by inductive loads.

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