

User instructions for SY038/4 I-I variant

Description

This unit is designed to convert a +/-10mA input signal into a proportional 4-20mA output.

Connections

The unit requires a DC power supply in the range 17 to 30V. This is connected to terminals E & F.

The 4-20mA output is available at terminal G. This sources current, so the load needs connecting to the 0V for the current return. The output can drive a maximum load resistance between G & H of 500 ohms.

The +/-10mA input signal should be fed into terminal B and out of terminal C. The resistance between terminals B & C is 10 ohms. The signal needs to be tied to be somewhere in the range 0 to +10V. A typical application would feed the signal into B and link terminals C and A to give a 0V return. The +10V is made available to enable other arrangements.

Calibration

The unit is shipped already calibrated but can be adjusted if required.

1. Connect an ammeter between terminals G & H.
2. With no input current, adjust the ZERO trimmer to give 12mA.
3. With +10mA applied, adjust the SPAN trimmer to give 20mA.

There is no interaction between the ZERO and SPAN trimmers so the unit should now be calibrated. As a check, reverse the current to input -10mA. The output should drop to 4mA.

