ISOCON-6-STRAIN

Configuration

The Isocon-6-Strain is specifically configured for Strain Input only, and should not be used for any other input signal type.

The input configuration is made using switches S1 and S2.

S1 is used to select the mV range that the bridge will produce with a 10V excitation voltage applied. So for a 3mV/V bridge with 10V excitation, the output will be 0-30mV. By referring to the mV Input Range table below, the range suitable for 0-30mV is the 0-50mV input. This is selected with S1 switches 4, 8, 9, 10 ON, and all others off.

S2 must always be set to 2, 7, 8, 11 ON, all others off.

The output type and range can be selected in the same way as the standard ISOCON product using switch S3 as per the manual.

mV Range	Switch S1											
	1	2	3	4	5	6	7	8	9	10	11	12
0-25mV	0	0	0	0	0	0	0	1	1	1	0	0
0-50mV	0	0	0	1								
0-100mV	0	0	1	0								
0-125mV	0	1	0	0								
0-150mV	1	0	0	0								
0-200mV	0	0	1	1								
0-250mV	0	1	0	1								
0-300mV	1	0	0	1								
0-500mV	0	1	1	0								
0-600mV	1	0	1	0								
0-1000mV	0	1	1	1								
0-1200mV	1	0	1	1								
-125 to +125mV	1	1	0	0								
-125 to +1000mV	1	1	1	1	0	0	0	1	1	1	0	0

Connection

The 10V bridge excitation is available on the Isocon terminals 3 (+) and 6 (-). These should be connected to the excitation of the bridge.

The bridge signal (mV) should be fed to the Isocon on terminals 5 (+) and 4 (-).

Calibration

With the full scale input signal connected to the ISOCON, press both front panel buttons and the front LED will turn to RED. Adjust the output signal to be as required using the front panel buttons for raise and lower. When correct press both buttons again to make the LED turn GREEN.

Apply the zero scale input signal and press both front buttons to make LED turn YELLOW. Again adjust the output signal using the raise and lower buttons. When correct press both front buttons and the LED turns GREEN.

The unit should now be calibrated.