Polarity Selection

The default polarity is shown in the picture on the left. To reverse the polarity, simply move the jumpers to the positions shown on the right.

Input Range Jumpers

The input value range is from 0.5 to 4.0 mV/V (based on 10VDC excitation). Select the input value closest to your input range by soldering the corresponding jumper. Span trim maybe required in some cases.

Current Output Selection

To change the current output, solder the jumper in the fashion described in the table below:

<table>
<thead>
<tr>
<th>mA Output</th>
<th>SJ1</th>
<th>SJ2</th>
<th>SJ3</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-20mA (Default)</td>
<td>Closed</td>
<td>Open</td>
<td>Open</td>
</tr>
<tr>
<td>0-20mA</td>
<td>Open</td>
<td>Closed</td>
<td>Open</td>
</tr>
<tr>
<td>5-25mA</td>
<td>Closed</td>
<td>Open</td>
<td>Closed</td>
</tr>
</tbody>
</table>

Shunt

It is NOT necessary to open the CSG amplifier to activate the shunt feature. Simply press the button through the cover in the location marked ‘SHUNT’.

Span Adjust

Adjustments to the Span and Zero are made by using a fine pitch screwdriver to adjust the Span and Zero pots.

Current Output Selection

For more info, visit: http://www.futek.com/jm.asp

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www.futek.com  Tel: 1-800-23-FUTEK or 949-465-0900  futek@futek.com
How to Open the Case

* There are slots on each side of the CSG110 amplifier case for easy opening.

How to Adjust Span & Zero, and Activate Shunt

* Span potentiometer locked on system calibrations.

Plug in DB9 male connector
Plug in DB9 female connector
Connect CSG110 amplifier to sensor
Connect power
Connect to display

1. Connection between sensor & CSG110 amplifier are completed by factory. READY TO USE.
2. Factory configured excitation voltages, gain, shunt value, and chosen output (Options available: VDC or 4-20 mA, 5 or 10 VDC excitation, and shunt cal calibration).
3. System calibration certificate is provided and also available online at www.futek.com.
4. System calibration is VOID if SPAN is adjusted after shipment.