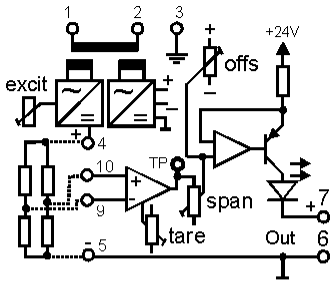
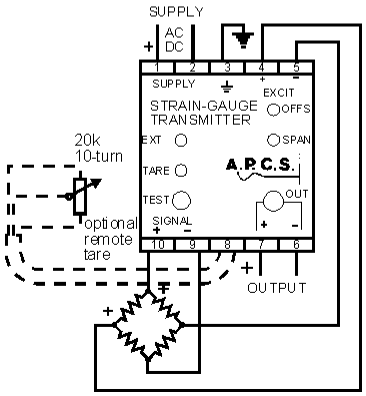
Calibration v6 and v7 Inputs 10 to 13 WT127

This procedure applies to a 'C201 Rev 1 PCB'.

Block Diagram



Connection Diagram



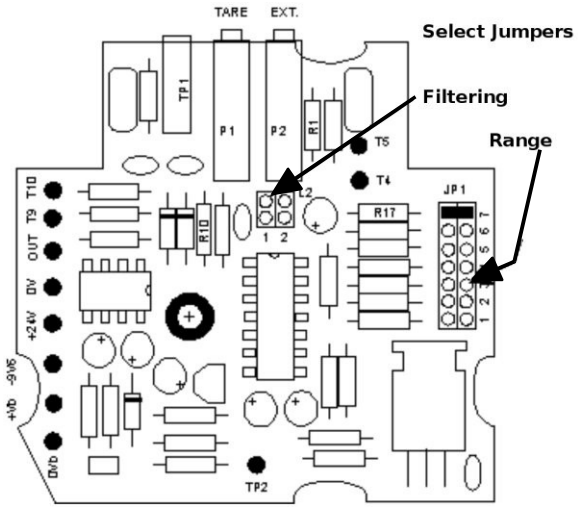
Set-up Procedure

1. Verify connections and power up the WT127.
2. With load-cell connected measure the excitation voltage on terminals 4 and 5, and adjust in accordance with load cell specifications using "EXT" adjustment.
3. Measure the offset signal by using the 2mm test socket with reference to terminal 5. Adjust this signal to be 0V ±0.1V via the "TARE" adjustment.
4. Adjust zero output (typically 4mA) using the "OFFS" trimmer
5. Apply load and adjust "SPAN" trimmer for full scale output as required (typically 20mA).
6. Recheck zero repeatability by removing load if possible.

Complete Span Rescale

1. This input rescale procedure can only be performed on modules ordered with input numbers 10 and 12, the basic span for inputs 11 and 13 are factory set.
2. For a complete rescale operation on the input, it is essential to remove the unit from the housing and separate the function board from the motherboard by removing the screw in the centre. Select jumper positions on the range selector from the table below for the desired mV input.
3. Then follow 'Set-up Procedure' above.

Range	
Input	**JP1 Setting**
0 - 1mV	1
0 - 2	2
0 - 3	1,2
0 - 5mV	3
0 - 7	2,3
0 - 10	4
0 - 12mV	2,4
0 - 15	3,4
0 - 20	5
0 - 25mV	3,5
0 - 30	4,5
0 - 50	6
0 - 60	4,6
Cal	7



Input / Output Response

Filtering	
500ms	Shunt position 2 of L2.
50ms	Shunt position 1 of L2.
5ms	Remove both shunts.

The C201 PCB has three two filtering selection plugs for the following response times.
The fastest response time (5ms) is set by a component on the base transmitter card.
If the unit has a customised response time option then a component on the base card is changed to achieve this time. For faster custom response times the filtering links can still be used to increase the response time to 50 or 500ms, however if the customised response time were longer than 500ms then these links would have little or no effect.