



MJB Junction Box

1.) Function

MJB Junction Box allows indicator to connect with several load cells by outputting signals from 4 load cells, 6 load cells, 8 load cells or 10 load cells.

The potentiometer inside the junction box can adjust the signal of the load cells thus making each load cell to output the same signal.

2.) Connection method

- A. The “OUT” connection point is the output which send signal to the indicator. Connection point “A/B/C/D/E/F/G/H” is the input which receive signal from the load cells. (The input quantity varies according to the number of the load cell it can connect). For example, if the junction box is 6-loadcell type, the connection point is “A/B/C/D/E/F”.
- B. Below each connection point, there is mark for connection. From left to right, the mark is “E+”, “E-”, “≡”, “IN+”, “IN-”.
- C. The detail information for each mark is as following:
 - “E+”: + excitation for load cell;
 - “E-”: -excitation for load cell;
 - “≡”: Shielded cable;
 - “IN+”: +signal from load cell;
 - “IN-”: -signal from load cell;

3.) Adjustment method

- A. Adjust the junction box when there is no power supply. (Contra-rotate the potentiometer, the resistance will reduce. Turn the potentiometer clockwise, the resistance will increase).
- B. Turn ON the power of the indicator and calibrate the indicator.
- C. Put the weight with the 1/3 value for the full range at each location of the load cell, record the display of the indicator. Adjust the potentiometer inside the junction box until the display difference of each load cell is within limits, please adjust as following:

If the display of one load cell is too big, turn the potentiometers of this load cell clockwise; if the display is too small, contra rotate (anticlockwise) the potentiometer(s) of this load cell.
Continue adjustment, until the corner error is within permissible limits.

D. After adjustment, then calibrate again.

4.) **The diagram is as follows:**

