

Application Note: Number AN17

Wiring of Two Switched Load Cell/Pressure Transducer Inputs Into A PM4-WT

The diagram below indicates how a PM4-WT load cell monitor may be connected to 2 switched load cells. If each load cell input is to be given different scale values then the display will be automatically switched between calibration scaling values, via EXT. IN1 input. The function **EXT. IN1** must be set to **CALS**.

Setup for each channel: In addition to switching calibration scaling between CELL1 and CELL2 the functions **DECIMAL**, **SCALE**, **UNITS**, **LOAD SP.**, **HIGH SP.** and **ZERO** can be individually set for each cell. Set the functions as required for the first cell with the switch in the CELL1 position then change the switch to the CELL2 position and set the functions required for the second cell. For example you can set the decimal **DECIMAL** to **0.1** for CELL1 and **0.02** for CELL2. Make any changes to the settings required before performing the calibration scaling for each cell.

Calibration: Select CELL 1 via the 4 Pole Dual Throw (4PDT) switch. Perform the calibration using one of the methods described in the instrument manual. Select CELL2 via the 4PDT switch. Perform the calibration procedure for the new cell. The 4PDT switch will then automatically select the correct calibration values to be displayed when the cells are switched over.

Note: When using a switch to change calibration scaling as described above do not use the **CELL** function to change calibration channel.

