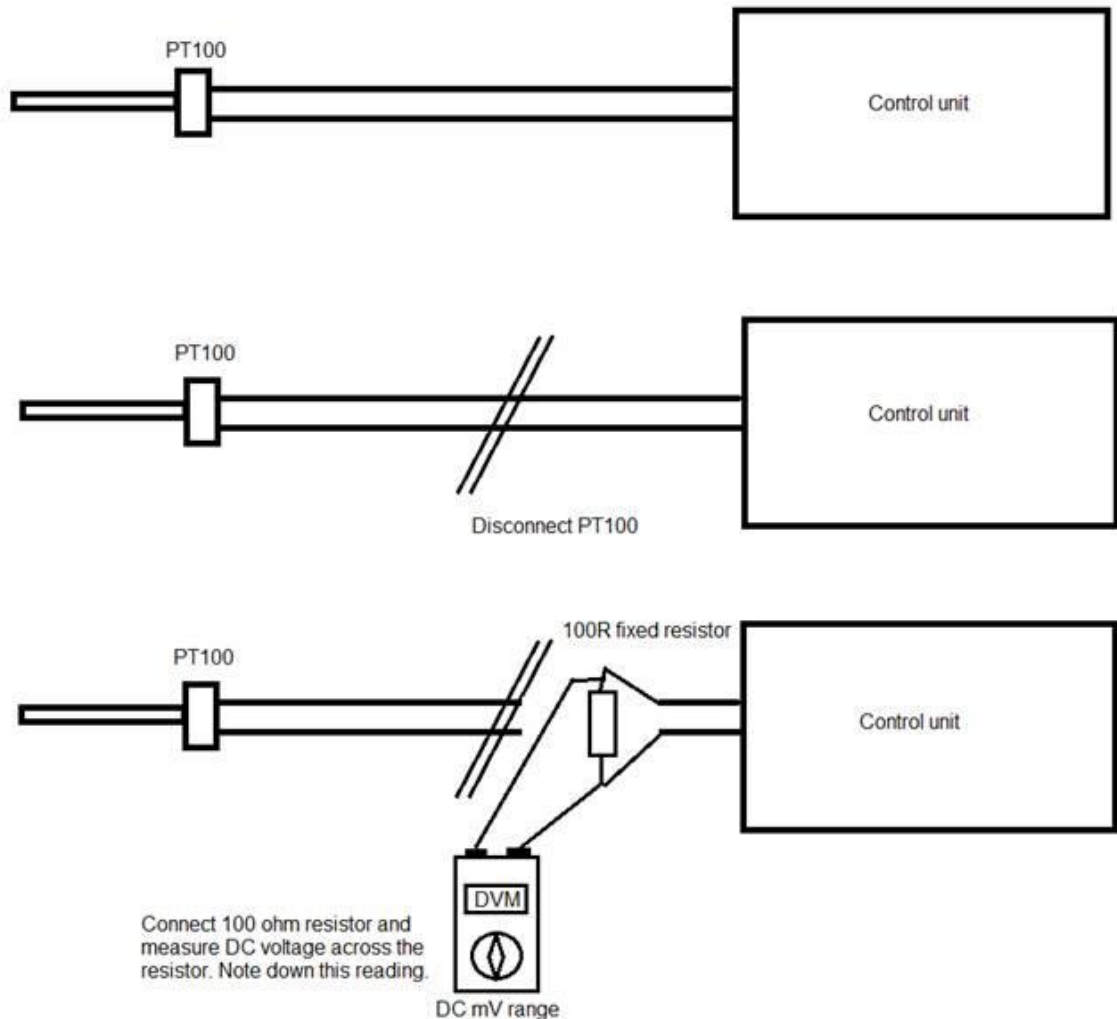


AMELEC ADM221X RTD (PT100) Splitters –

Field Test to be carried out during site surveys – (rev2 08.2015)

- 1) Measure the mV signal directly across the two resistance sense input terminals of the existing temperature controller, with all existing wiring still in place. Record this mV reading along with the actual Temperature level being displayed at this moment.
- 2) Now disconnect these same two input wires from the controller and terminate a 100Ω resistor across the two terminals, leaving any Linking which may exist from either of these terminals to a 3rd terminal in place. Measure and record this new mV reading directly across the 100Ω resistor, as per original surveys shown again below;



3) $\text{mV} / \Omega = \text{Current (mA)}$, so the results from steps 1 & 2 above should equal the same value for the constant current source being generated by the controller if all is correct. Some ref points for your actual temp calculations in step 1; 0°C=100Ω, 50°C=119.4Ω, 75°C=129Ω, 100°C=138.5Ω, 125°C=148Ω, 140°C=153.57Ω, 150°C=157.3Ω, 160°C=161Ω, 170°C=164.76Ω, 180°C=168.46Ω, 190°C=172.16Ω, 200°C=175.84Ω