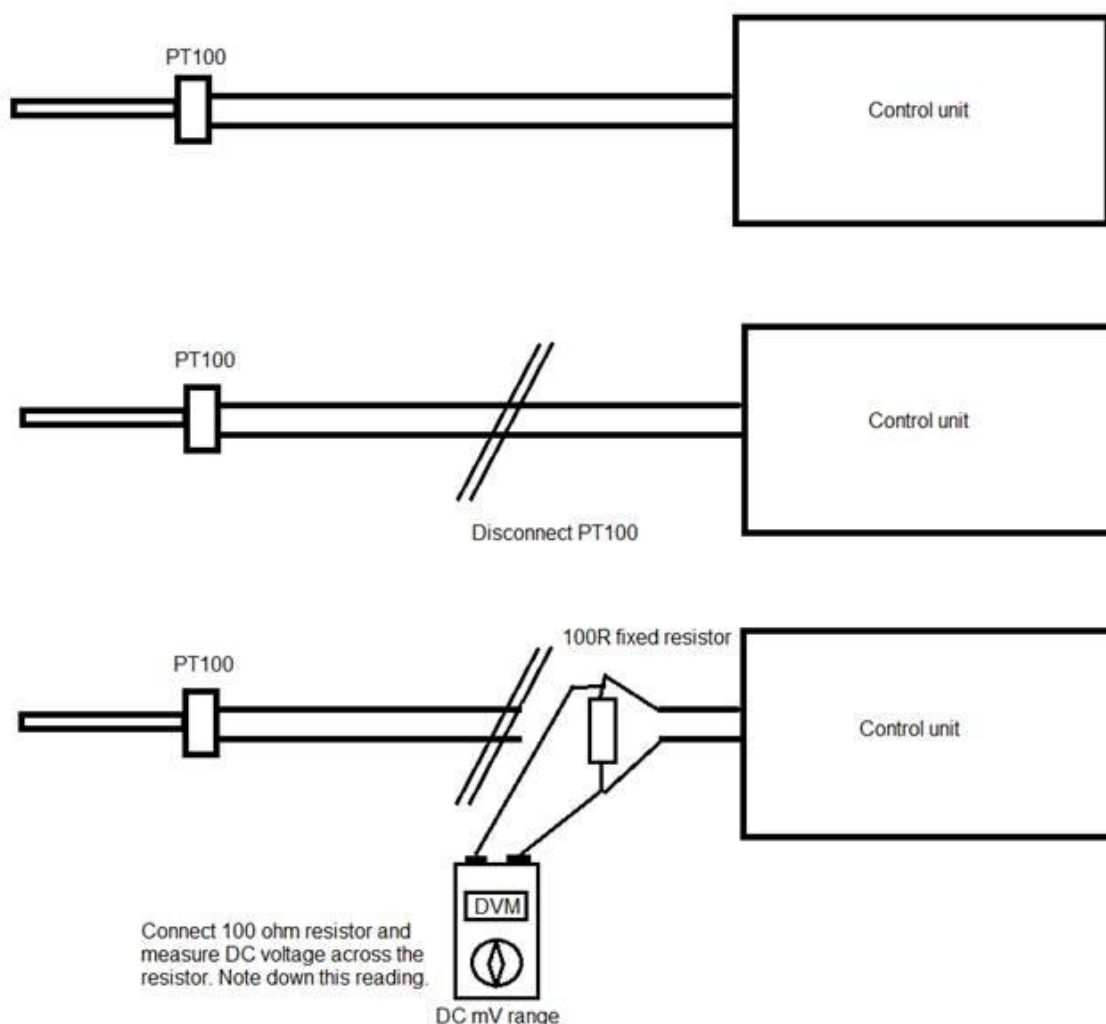


## AMELEC ADM221X RTD (PT100) Splitters –

### Field Test to be carried out during site surveys – (rev1 08.2015)

- 1) Measure the mV signal directly across the two resistance input terminals of the existing temperature controller, with all existing wiring still in place. Record this mV reading + the actual Temperature level being displayed at this moment
- 2) Now disconnect these same two 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 3<sup>rd</sup> 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;  $0^{\circ}\text{C}=100\Omega$ ,  $50^{\circ}\text{C}=119.4\Omega$ ,  $75^{\circ}\text{C}=129\Omega$ ,  $100^{\circ}\text{C}=138.5\Omega$ ,  $125^{\circ}\text{C}=148\Omega$ ,  $140^{\circ}\text{C}=153.57\Omega$ ,  $150^{\circ}\text{C}=157.3\Omega$ ,  $160^{\circ}\text{C}=161\Omega$ ,  $170^{\circ}\text{C}=164.76\Omega$ ,  $180^{\circ}\text{C}=168.46\Omega$ ,  $190^{\circ}\text{C}=172.16\Omega$ ,  $200^{\circ}\text{C}=175.84\Omega$