





Changing a K-type thermocouple:

1. Ensure your kiln is either unplugged from the power point or if an isolator switch is used, then the isolator switch is in the **OFF** position and the breaker is in the **OFF** position.
2. Remove the terminal cover to expose the electrical connections in the kiln. The thermocouple will have a yellow 2-flex cable, containing a yellow (+) and a red (-) inner cables. Connected to the ceramic terminal block on the thermocouple.
3. Withdraw the ceramic connector (the thermocouple is connected to it). Check that the new thermocouple is no shorter than the failed thermocouple – this will ensure it sits a suitable distance into the kiln. Unscrew the connections of the compensating lead to the old thermocouple and insert the new thermocouple into the kiln.
4. K-type thermocouple polarity is:

 **POSITIVE (+) - YELLOW cable**

 **NEGATIVE (-) - RED cable**

You will find a small length of compensating lead attached to the new thermocouple to assist. You can discard the small length of compensating lead and connect the lead you have disconnected from the failed thermocouple, observing the correct polarity.

5. Make sure your connection in the insulator block of both the red and yellow inner cables is solid.
6. **IMPORTANT** - Replace the terminal cover ensuring that all cables are both **AWAY** from the kiln case (minimum 1cm) and not trapped between the terminal cover and the base of the terminal box or between the terminal cover and the kiln case. This is critical as if the compensating lead contacts the kiln wall, then the potential exists from aberrant readings to occur as the kiln case heats up.
7. Turn your kiln on and run a program ensuring that the temperature in the kiln is increasing. If you notice a reduction in temperature, please stop the cycle and contact us. If the controller shows 'OPEN' or E000 then it indicates a loose connection. Repeat steps 1-7 and check for faulty connections or breaks.