

CONTHERM *Scientific Limited*

TECHNICAL MEMORANDUM

PRODUCT :PRECISION

No : 0083

=

FROM : Contherm Scientific Ltd

DATE : 23/04/2003

TO : ALL AGENTS

SUBJECT: REPLACING A PRECISION ELEMENT

The following instructions are a guide to replacing a precision element in the field where the element has failed due to corrosion or having developed electrical leakage to the sheath. The method is applicable to most precision cabinets.

A suitable box or tube spanner should be used to remove/fit the large element securing nuts.

When replacing the ELEMENT ensure ALL POWER to the unit is OFF, the replacement must ONLY be carried out by a qualified electrical service engineer.

1. Disconnect the cabinet from the wall power supply by REMOVING the plug from the wall socket.
2. Remove the lid from the top of the cabinet.
3. The element ends will be covered with heat-shrink tubing – remove this tubing from the element legs (typically by carefully cutting it off with a knife).
4. Unplug the spade terminals from the element legs.
5. From inside the cabinet, remove the inside top cover and lift out of the cabinet so that the element is clearly exposed. – put something soft (cardboard or cloth) below the element for it to drop onto.
6. Using a large box or tube spanner from the outside top remove the nuts holding the element legs to the top of the cabinet.
7. The element should now drop down inside the cabinet.
8. Replace the element with the new one supplied assembling in the reverse order ensuring that new pieces of heat-shrink are fitted (and shrunk) over the ends of the elements after they have been reconnected to seal them.
9. Check the cabinet insulation resistance and earth continuity and return the cabinet to service.