

# CONTHERM *Scientific Limited*

TECHNICAL MEMORANDUM  
0086

PRODUCT :4000 MITRE SERIES

No :

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FROM : Contherm Scientific Ltd

DATE : 31/3/2004

TO : ALL AGENTS

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**SUBJECT:** INTERMITTANT DISPLAY PROBLEMS ON 4150,4200 & 4400 CO<sub>2</sub>  
INCUBATORS

There have been instances when the LED displays on the above units do odd things, I.E. Door alarms when the outer door is still closed, Display goes blank or display stops reading correct temperature.

The problem can be caused by static buildup on the metal of the outer door. To ensure that the outer door is reliably earthed from a static point do the following:

Remove all power from the cabinet.

Remove the cover from the display PCB by undoing the two screws at the base of the external cover plate.

Run a green earth wire (almost any size wire is suitable but typically about 0.5mm) from the 'GND' solder position on the bottom of the display PCB to under one of the PCB holding nuts, (the PCB is fastened to the door back by nuts holding the PCB onto extension studs or PEMS). It would be best if the wire at the stud(nut) end is fitted with a wire lug so that it makes a good contact with the nut..

This will ensure that the metal outer door is connected to signal ground.