

TRACE HEATING PCB SETUP/TEST INSTRUCTIONS

Connect all field wiring to the appropriate terminal within the unit. This should be carried out by competent person and in accordance with BS7671 18th edition wiring regulations.

When mains power is applied to the board for the First time, the amber heater be on, and red fault LEDs will flash 4 times. This indicates that the latest version 4 software is installed.

On board diagnostic LED

LED flashes once = fault on trace circuit No1

LED flashes twice = fault on trace circuit No2

LED flashes three times = fault on both trace circuits

LED flashes steady on off (heartbeat) = system ok.

Link pins

Link pin 1 (Test) is provided on the board to enable an auto test to be performed.

For normal operation, the pin should be in place, the board will carry out a system test every 2 hours.

Removing the pin from the board will allow the system to perform an auto test every 60 seconds. This is for test and commissioning purposes only.

Link pin 2 (Single) is provided to enable the board to be configured for single or dual trace systems.

With the link pin in place, the board will monitor single circuit trace heating only.

With the link pin removed, the board will monitor dual circuit trace heating systems in accordance with BS EN 12845.

Temperature selection

On the top right-hand side of the board are a band of 4 switches. These are used to select the probe sensing temperature.

All switches off = 5 deg c (normal frost protection mode)

Switch 1 on = 10 deg c

Switch 2 on = 15 deg c

Switch 3 on = 20 deg c

Switch 4 on = 25 deg c

Power selection

On the top right-hand side of the board, below the temperature selection switches, are a bank of 8 switches. These are used to select the desired monitored load.

All switches off = no power monitored

1 on = 50w

2 on = 100w

3 on = 200w

4 on = 400w

5 on = 800w

6 on = 1600w

7 on = 3200w

8 has no function for trace heating and should not be used.

Selection one or more switches to achieve the required lead requirements.