

Control Panel Fault Detection System

Part number:- 025-00033-00 or 025-00036-00

In the design of these unit we built in error detection and signals to the user so that we can detect any error via the LEDs and the Sounder. So that if an error occurs the unit itself can help signal what is wrong. This may not cover every possible error, but should cover the most likely faults should they ever arise. A list of the six possible error modes and their unique sequences are as follows...

- 1: Control LED Error: # # # _____ repeat
- 2: Power LED Error: # # # # _____ repeat
- 3: Sounder Error: # # # # # _____ repeat
- 4: Keypad Power Key: # # # # # # _____ repeat
- 5: Keypad Control Key: # # # # # # # _____ repeat
- 6: Over Current Detected: # # # # # # # # _____ repeat

Where # represents a 0.15 second flash / beep and _____ represents a 1.5 second pause.

Pressing any of the two keys will exit the error condition and return the unit to Standby mode.

The control panel has a current limit of approx 4.4 amps. If this value is exceeded for any reason, the unit will go into over-current error mode. The primary function of this feature is to protect the product and the Customer's equipment from a short circuit at the valve / coil.

Possible reasons for over-current are as follows...

Short Circuited Coil

Wattage of coil too high

Suppression diode if fitted to coil may be reversed.

Connections to coil fitted with suppression diode may be reversed.

Short circuited cable assembly.

Wrong Voltage coil

Some things the customer can try...

- 1: Disconnect the valve - ensure both valve leads are not touching and test the unit - If the unit does not enter error mode, the cable assembly is fine.
- 2: If possible, remove any suppression diode on the valve and retest. The control unit has built in suppression diodes so there is no risk of damage.
- 3: Test with a lower wattage coil