BMS Relay Contact Alarm

Option Part No 050-023

The BMS (Building Management System) Relay Contact Alarm allows a signal from a central alarm system to be switched “ON” or “OFF” to indicate an alarm condition at the incubator. Alarms which activate the system are: over temperature, under temperature, system failures, CO2 high & CO2 low. The alarm is programmed to indicate when mains power is switched off or lost, perhaps due to an electrical fault. The alarm may also respond to other types of alarm depending on the options fitted to the incubator.

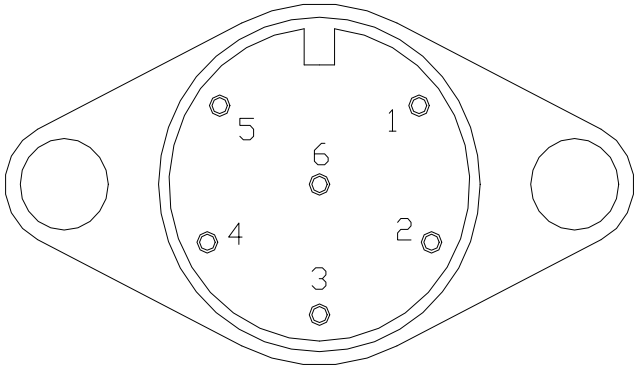
The system is connected at the rear of the incubator, via a standard 6-pin “DIN” plug. A matching plug is included in the brown accessories envelope.

The default setting for the alarm system is OFF. To activate the relay using the incubator keypad, the following procedure should be carried out:-

Press the ‘↵’ & ‘-’ Keys simultaneously to enter the Alarm Program Mode. Press the ‘+’ Key until ‘rEL AY’ is shown on the display. Press the ‘↵’ Key to select the option. The default setting is ‘no’ (OFF) press the ‘+’ Key to change the display to ‘YES’ (ON), or the press the ‘-’ Key to return the display to ‘nO’ (OFF), Press the ‘↵’ Key to accept the selection. To return to the temperature & CO2 display screen, press the ‘*’ Key twice.

Connections are as shown below:-

VIEW OF SOCKET FROM REAR OF INCUBATOR



1= 12 VOLTS DC UNREGULATED (100mA Max)
2= 0V
3= 5 VOLTS DC (VIA 10K PULL-UP RESISTOR)
4= NORMALLY CLOSED
5= COMMON
6= NORMALLY OPEN

Pins 1 & 2

Supply 12 Volts DC (unregulated) to power external equipment such as a remote buzzer or light (max current available – 100mA). Cable length should not be more than 3 metres to comply with EMC requirements.

Pin3

Provides 5 Volts DC via a 10KΩ resistor, for a logic signal to directly control an auxiliary control system. Cable length should not be more than 3 metres to comply with EMC requirements.

Pins 4, 5 & 6

Access the relay contacts. Contact limits are 3Amp @ 24 Volts DC, 3Amp @ 34 Volts AC.