

Brinsea

TEMPERATURE ALARM MODULE

USER INSTRUCTIONS

Introduction

The alarm provides an audible and visible signal in the event of over temperature, under temperature and power failure. The unit is available in two forms: a stand-alone module for universal use and a dedicated version which fits directly onto the Octagon 100 series incubators.

Function

The controls and indicators on the front of the module are labelled and numbered. The numbers given in brackets below identifies the control or indicator being referred to.

1. In normal operation, with the power button (1) depressed the red 'power' light (2) will be illuminated.
2. If the mains supply fails, the yellow 'mains fail' light (3) will illuminate and the buzzer will sound. An internal rechargeable battery will maintain the alarm for several hours in the event of power supply failure.
3. In the event of the incubator going over temperature, the red 'high limit' light (5) will illuminate and the buzzer will sound. On the dedicated version fitted to the Octagon 100 series incubators the heater supply will be disconnected. In this case the alarm will switch the heaters back on after the temperature drops and will maintain a temperature of 1 - 2°F above the set incubation temperature in the event of a heater control failure.
4. If the incubator temperature falls the blue 'low limit' (7) light will illuminate and the buzzer will sound.
5. When the incubator is opened to inspect the eggs, etc. the 'low limit' alarm will sound. In this event the 'silence alarm' button (8) can be pressed. This will disconnect the buzzer for approximately 10 minutes and then reset automatically. It can also be depressed once a genuine alarm is being attended to. The 'silence alarm' light will illuminate while the buzzer is de-activated.
6. Before setting the high and low limits for your alarm run your incubator up to temperature and allow the temperature to stabilize. To set the high limit turn the 'high limit' adjuster (4) down (anti-clockwise) slowly until the alarm sounds. Then turn up (clockwise) ½ a turn.
7. Similarly, turn the 'low limit' adjuster (6) up slowly (clockwise) until the alarm sounds and then turn back until the alarm just stops, then turn a further ½ turn down (anticlockwise). This will set the alarm approximately 1°F above and below incubation temperature. In incubators with less accurate temperature control it may be necessary to set the limits further apart to avoid false alarms.
8. Plug the temperature probe wire into the sensor socket (10) and position the sensor as close as possible to the incubator's own temperature sensor.

Retro-fitting the Temperature Alarm module to a Brinsea Octagon 100 series incubator.

BEFORE STARTING, DISCONNECT THE INCUBATOR FROM THE POWER SUPPLY

1. The temperature alarm module is mounted on the plastic rail on top of the incubator immediately behind the temperature control housing (or humidity module if fitted). Locate the unit in position and drill four 1/16" fixing holes in the mounting rail corresponding to the holes in the alarm module housing.
2. Remove the cover of the temperature control and remove the inner power supply cover. Connect the 2 orange and 2 green leads to the power supply as shown below.

*the yellow wires will only be present if a humidity module is fitted.

3. Refit the power supply cover and screw down the alarm module with the screws provided. Plug in the sensor and feed the wire under the module from behind so that it comes through to the front of the mounting rail.
4. Insert the alarm sensor through the hole next to the sensor for the temperature control and carefully fit the bung (supplied) beside the sensor wire to hold it in place and seal the hole. Adjust the length of the sensor sticking through so that it is next to the temperature control sensor. Re-fit the temperature control cover. The alarm is now ready for use.

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