

1 and 2 Zone Room Temperature and Humidity Alarm Type: RHTA



The RHTA Alarm Panel is designed to monitor and protect critical areas, such as server rooms, containers, generator rooms, UPS rooms, and medical storage facilities, from over-temperature or humidity conditions caused by faulty cooling systems.

The temperature and humidity in each area is monitored and compared to an alarm trigger setpoint that can be internally adjusted between 0-50°C and 0-90%RH for each zone. Both current ambient temperature and humidity are displayed on the alpha numeric display along with the zone alarm status.

If the room temperature or humidity exceeds the alarm setpoint, the display will indicate the zone number, the type of alarm, and the alarm setpoint. An internal audible warning will activate, and the common alarm volt-free contacts will change state. Additionally, if optional features are installed, the following actions may occur:

- A remote beacon or beacon sounder will activate.
- The SMS text messaging or email notification system will send an alarm message via the mobile network.

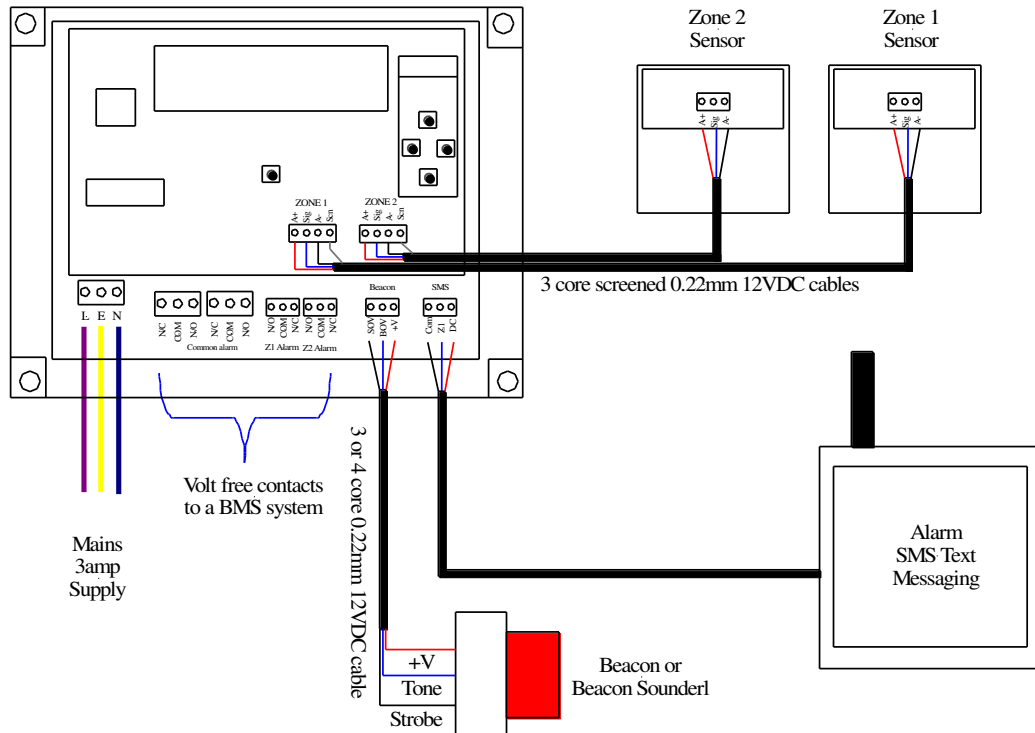
If power to the unit fails, the internal volt-free “Common Alarm” BMS contact will change state.

Standard Features

- * **The unit can be supplied as a 1 or 2 zone system**
- * **Remote temperature sensors, up to 50m away from the main alarm unit**
- * **Large back lit alpha numeric display**
- * **Current ambient temperature and humidity displayed for each zone**
- * **Individual, tamper proof, temperature alarm adjustment for each zone from 0 to 50°C**
- * **Individual, tamper proof, humidity alarm adjustment for each zone from 0 to 90°C**
- * **Except for mains power, all terminals are of the plug and socket type**
- * **On board audible warning device to alert local operators of a problem**
- * **Alarms latched until Mute operated**
- * **Two common alarm relay contact for onward signalling to a BMS or other systems**
- * **Mains Power monitoring via the common alarm BMS contact**

Optional Equipment

- * Individual zone alarm relay contacts for onward signal to a BMS
- * Common alarm output to a Flashing Beacon
- * Common alarm output to a Flashing Beacon and Mutable Sounder
- * SMS text messaging or Email notifications



Specification

Housing type	ABS Plastic
Colour	Light Grey
Size	180mm wide x 130mm high x 60mm deep
Mounting	Wall
Cable access	Bottom/back
Monitored temperature and RH % range	0 to 50°C, 0-90%RH
Maximum sensors per zone	1
Accuracy	+/- 0.5°C and +/- 2%RH, plus or minus 1 digit
Maximum distance to sensor	50 metres
Sensor cabling	Overall screened 0.22mm 3 core
Sound Output	80db at 1 metre
Burden	<3VA
Input Voltage	96- 265VAC 50/60 Hz
Common alarm contact	DPCO 1A @ 230VAC volt free contacts
Alarm unit IP Rating	IP50
Sensor IP rating	IP30
Optional Beacon	IP67 high intensity Red Flashing LED
Optional Sounder	IP67 110db at 1 metre
Optional SMS text	Maximum of 3 users

Continual development may result in products and specifications being changed without prior notice