

# **Temperature Monitoring (4G)**



#### **Features**

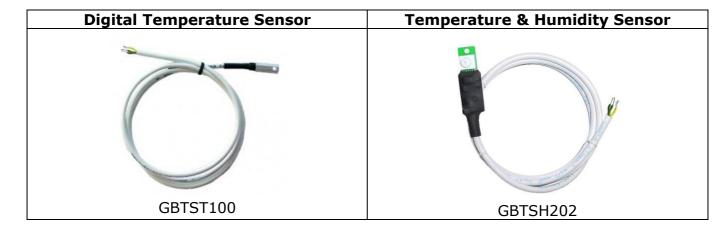
- 4G Mobile network technology
- Up to 4 temperature or temperature & humidity sensors
- Setup via USB (Windows®) or SMS
- SMS alarm alerts -up to 5 recipients
- Email alarm alerts -up to 5 recipients
- SMTP & TLS Support
- GBSM-120-02 with battery backup
- GBSM-120-03NC with battery backup and I/O
- Mains powered: 90-264 Vac
- Ingress Protection rating: IP55
- Mains Healthy LED

The GB Controls 4G Temperature monitoring panels can be used to monitor coldroom temperatures and send alerts via email or SMS text message. They come in 3 standard variants, the base model GBSM-120-01 with no battery backup, a mid-range model GBSM-120-02 with battery backup and a higher specification model GBSM-120-03NC with battery backup and digital input/output relays.

The relay outputs are activated from the status of the monitored temperature/humidity parameters which trigger a local output to a beacon/sounder. Only 2 sensors variables can be set to trigger the alarm relay output, but all sensor variables can be set to trigger email or SMS alerts, with one common alarm delay.

The GBSM-120-03NC also has the facility for an alarm input via a volt-free contact, this can be connected to and external device or system, such as plant equipment to trigger both a local alarm and an email or SMS alert. This unit also has connections for a remote silence key-switch.

For initial setup, users can access a graphical interface via USB interface and Windows® setup program. When in the field, the device can be configured remotely using either SMS or HTTP API commands.







# **GBSM-120-01 Specifications**

Dimensions: 230mm wide x 310mm high x 130mm deep

# **GBSM-120-02 Specifications**

Dimensions: 230mm wide x 310mm high x 130mm deep

Battery Power Reserve 4 Hours

# **GBSM-120-03NC Specifications**

Dimensions: 310mm wide x 390mm high x 130mm deep

Battery Power Reserve 4 Hours

Inputs/Outputs

Switched Input Voltage/Current 12V dc / 20mA Beacon Output Voltage/Current 12V dc / 100mA

### **GBSM Common Specifications**

**Physical** 

Material: Polycarbonate, Light Grey RAL7035

Ingress Protection: IP55 to EN 60529 Unit Operating Temp: 0°C to +50°C

Supply

Supply Voltage: 90 - 264 Vac / 47 - 63Hz

AC Current (typical at 230V): 1.0 A

#### **GBTST100** Digital Temperature Sensor Specifications

Sensor Head Dimensions: 8mm x 8mm x 23mm long

Cable: 1m silicone cable (extendable to 10m max.)

Ingress Protection: IP65 to EN 60529

Supply Voltage: 3V-5.5Vdc

Temperature Range: -40°C to +85°C

Accuracy -10°C to +85°C:  $\pm 0.5$ °C Accuracy -40°C to +85°C:  $\pm 2.0$ °C  $\pm 2.0$ °C

Resolution: 12 bit/ 0.0625°C

### **GBTSH202 Temperature & Humidity Sensor Specifications**

Sensor Head Dimensions: 16mm x 10mm x 45mm long

Cable: 1m silicone cable (extendable to 10m max.)

Ingress Protection: IP00 to EN 60529

Supply Voltage: 4V-5.5Vdc

Temperature Range:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  Humidity Range: 20% to 80% RH Accuracy:  $\pm 0.4^{\circ}\text{C} / \pm 3.0\%$  RH Resolution:  $0.1^{\circ}\text{C} / 0.1\%$  RH

GBSMB1 Iss.1

