


Temperature Monitoring (4G)



	Features <ul style="list-style-type: none"> • 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
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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 an 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.

Digital Temperature Sensor	Temperature & Humidity Sensor
 <p>GBTST100</p>	 <p>GBTSH202</p>

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: ±0.5°C
Accuracy -40°C to +85°C: ±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°C to +60°C
Humidity Range: 20% to 80% RH
Accuracy: ±0.4°C / ±3.0% RH
Resolution: 0.1°C / 0.1% RH

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