# Temperature Monitoring (LAN)



## Features

- Local Area Network (LAN) technology
- Up to 2 temperature or temperature & humidity sensors
- Setup via web browser interface
- Free App for remote monitoring
- Email alarm alerts to 1 recipient
- SMTP with authentication
- GBSM-122-02 with battery backup
- GBSM-122-03NC with battery backup and I/O
- Mains powered: 90-264 Vac
- Ingress Protection rating: IP55
- Mains Healthy LED

The GB Controls LAN Temperature monitoring panels can be used to monitor coldroom temperatures and send email alerts via a Local Area Network (LAN) connection. They come in 3 standard variants, the base model GBSM-122-01 with no battery backup, a mid-range model GBSM-122-02 with battery backup and a higher specification model GBSM-122-03NC 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 sensors variables can be set to trigger email alerts, with deadband but no alarm delay.

The GBSM-122-03NC 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 alert. This unit also has connections for a remote silence key-switch.

A mobile application is available for Android® and Apple® based devices for remote setup, monitoring and control.

| Digital Temperature Sensor | Temperature & Humidity Sensor |
|---|---|
|  |  |
| GBTST100 | GBTSH202 |

**GB Controls Ltd**
39A Churchill Way | Lomeshaye Business Park | Nelson | Lancashire | BB9 6RT | UK
Registered in England No. 01873877

T | +44 (0) 1282 871 187
E | sales@gbcontrols.co.uk
W | www.gbcontrols.co.uk

### GBSM-122-01 Specifications

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

### GBSM-122-02 Specifications

Dimensions:                                                  230mm wide x 310mm high x 130mm deep
Battery Power Reserve                                 4 Hours

### GBSM-122-03NC 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

GBSMB2 Iss.1