# BLUE-S

((m)) MIIGO

## ONLINE + OFFLINE HYBRID DATA LOGGER

| Measurement parameters | Data Collection |
|---|---|
| Temp / Humidity / Voltage / Current | Wireless Communication with PC/ Cloud Mobile App /Data Collectors /Gateway |

The BLUE-S Series data loggers are designed to measure and record temperature /humidity /process parameters in volts and mA. Variety of data collection tools are available to enable wireless collection of recorded data. Models offers with and without display versions as per requirement from customer.

| Model | Measurement Items | Measurement Range | Notes |
|---|---|---|---|
| BLUE-S-TI | Temperature 1ch (Internal Sensor) | -30 to 70°C | Measure temperature |
| BLUE-S-THI | Temperature-Ch1 / Humidity Ch-2 | -30 to 70°C/0 to 100%RH | Measure Temperature and Humidity |
| BLUE-S-TE | Temperature 1ch (External Probe) | -40 to 150°C | External Sensor for measuring / 1-to-5-meter selection of wire length |
| BLUE-S-TC | Temperature 1ch (Thermocouple) | -199 to 1760°C | For use with Thermocouple Sensor Types: K, J, R, T, S, N, B, E |
| BLUE-S-RTD | Temperature 1ch (Pt100, Pt1000) | -199 to 600°C | Supports 2-wire and 3-wire Sensors |
| BLUE-S-V | Voltage 1ch | -1999 to 9999 | 0 – 200mV, 0-1/3.6/5/10VDC 1 – 5 VDC |
| BLUE-S-C | 0/4-20mA 1ch | -1999 to 9999 | 0 – 20mA or 4 -20mA |



**BLUS-S With Display**

**BLUE-S Without Display**
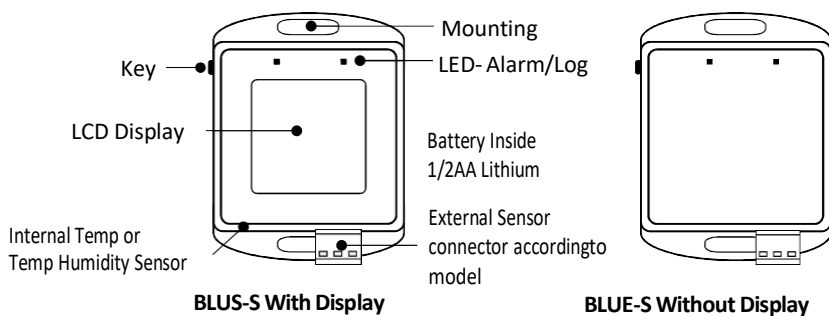
## FEATURES AT A GLANCE
### MEMORY MANAGEMENT (BLUE-H-A SERIES PORTABLE ONLINE + OFFLINE DATA LOGGER)

- 16K memory points for TI version/ OPTIONAL - 40K
- 16K (8k temperature and 8k humidity) for THI version / OPTIONAL - 60K (30K per channel)
- 16k for all other version / OPTIONAL - 40K

### ACCURACY, RANGE & RESOLUTION:

- TI - Premium accuracy of Temperature: ± 0.3 °C (Range: -30 to 70 °C / Resolution 0.01 °C).
- TE – Premium accuracy of Temperature: ± 0.3 °C (Range: -40 to 150 °C / Resolution 0.01/0.1°C).
- THI – Premium accuracy of HUMIDITY: ± 2 % RH,   TEMPERATURE: ± 0.3 °C (Range: -30 to 70 °C, 0 – 100% RH)
- Resolution of 0.01 for both humidity, temperature, and dewpoint for internal sensors.
- For other versions – refer the catalogue

## SPECIFICATON THAT MAKES A BETTER ROI FOR CUSTOMER

- Onsite 3 - 5 – 10 points drift adjustment & calibration via the mobile app. Comes with reminder for calibration due.
- REPLACE-ON-SITE: replace damaged sensors at the site itself (External sensor) or factory (Internal sensor).

**ALARM MANAGEMENT:**

- Audible + Visual alarm for %RH + Temperature + Dewpoint - all parameters together.
- **Judgment time** - a unique feature for %RH-TEMP-DEW - all 3 parameters.
- Calibration due date reminder

**DATA VIEWING EXPERIENCE:** Users has 6 different ways to see the present readings, max-min-avg value, alarms, and recorded value and so on………

- ➢ **On Instrument Display**                              > **MIIG- BLUE Mobile Application**
- ➢ **BLUE-DOCK + BLUE-DESK PC Software**        > **WI-FI or Ethernet Gateway + BLUE-NET PC Software**
- ➢ **WI-FI or Ethernet Gateway + BLUE-WEB Cloud Software**   > **GSM-GPRS Gateway + csv report**



**ON INSTRUMENT DISPLAY**:
Using up and down key - User can see the present reading, last alarms value, MAX-MIN-AVG value in the unit display itself.
**NOTE** - Users can program what is desired on INSTRUMENT'S DISPLAY out of
" %RH-TEMP-DEW-DATE-TIME " –and what is not required.

## REAL TIME DATA AND ALARM STREAMING ON MOBILE/ TAB VIA MIIG-BLUE MOBILE APPLICATION



- Online Data Update
- Data Report Generation
- Alarm
- Battery Health
+ information for multiple units together

**MIIG-BLUE MOBILE APPLICATION HELPS TO PERFORM**
- View online live data and alarms.
- Download alarm data and logged data in .pdf or .csv format
- Perform multipoint calibration and drift adjustment

**REPORTS OPTIONS**

- Tabular Data Report + Event/Alarm Report + Graphical Report in .PDF format

Optional .CSV report (Tabular Data Report + Event/Alarm Report, except Graph Report)

You can select desired durations / Required channel / average or close value and likewise multiple features to generate reports directly from Mobile and share them to system via WhatsApp / Email or some other suitable application

# BLUE-DESK PC Software    II    BLUE-NET PC Software    II    BLUE-WEB Cloud Software

### A) Data transfer to Smartphone with MIG-BLUE-App
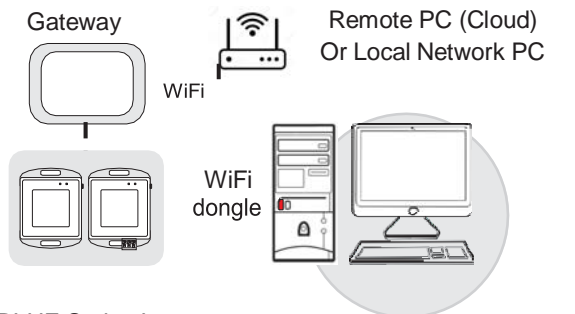
BLE Range — — — — Android Phone
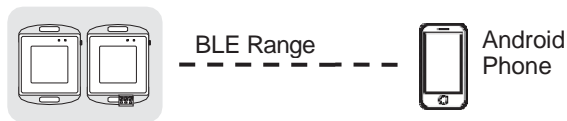
BLUE Series Loggers

### B) Data transfer to BLUE-DESK using Bluetooth Dongle

BLE Dongle

BLUE Series Loggers

BLUE-DESK PC software

### C) Data transfer to BLUE-NET PC software over Wifi Network

Gateway

WiFi

Remote PC (Cloud) Or Local Network PC

WiFi dongle

BLUE Series Loggers

BLUE-NET Network PC software

### D) Data transfer to BLUE-DESK using Data collector

BLUE-DOCK Data Collector

USB
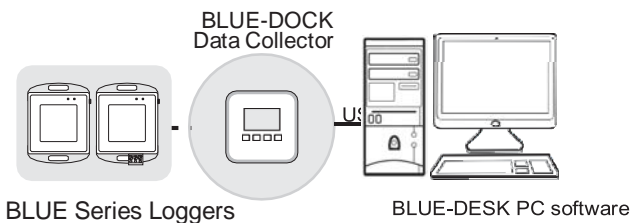
BLUE Series Loggers

BLUE-DESK PC software

## BLUE-DESK PC Software

PC based software BLUE-DESK can connect units for programming and downloading data. If PC to unit distance is within BLE range, live data can be monitored in the system. Best uses for small facility.

## BLUE-DOCK DATA COLLECTOR + BLUE-DESK PC Software

### (Ideal Tool for Thermal Mapping /Validation Service Provider)

| ① Program The device | ② Monitoring | ③ Download Data | ④ Transfer Data to PC |
|---|---|---|---|
| BLUE -DOCK | B  zz... BLUE -DOCK | BLUE -DOCK | USB |
| BLUE-H-Device | BLUE-H-Device | BLUE-H-Device | |
| **Program multiple units in Single Click** | **Monitoring current data and alarm from Units** | **Downloading data and Events from Units** | **Data upload for Report generation** |
| Select multiple devices together and Program its Alarm setpoints, Log parameters, interval, start, stop events on One Click. | Once devices get installed in the place Blue-Dock helps to gather the current reading and alarms if any from the devices within its range. If any alarming condition found in its scan the buzzer will sound on Blue-Dock. For more details about alarm can found in event report. | Once devices finished the logging Blue-dock helps to download the data and alarms if any from the devices within its range. The download is automatic once initiated. After complete transfer of data from device, the data in the device is erased. It is strongly recommended to keep Blue-Dock near devices for faster download. | The Data can be easily transferred to PC via USB port in the form of .mig extension file. The Data and event report are shown in separate reports. |

## WI-FI or Ethernet Gateway and BLUE-NET PC Software

PC based networkable software BLUE-NET can connect units for programming and downloading data as well see the data online in huge building, multi-floor facility and so on. Using WI-FI Gateway or Ethernet Gateway user can connect multiple data logger from different rooms / floors in INTRANET NETWORK.

## WI-FI or Ethernet Gateway and BLUE-WEB Cloud Software

BLUE-WEB Cloud software is used to connect multiple data logger via Ethernet or WI-FI gateways. Typically used for multi-floor or large area monitoring even for multi-location monitoring purpose. User can monitor data using ID and password from anywhere over internet.

## GSM-GPRS Gateway and CSV reports

Data logger/s can be connected with GSM-GPRS gateway. As per program gateway will send alarm reports to user specific mobile number / Typically used for remote location monitoring.

## BLUE-S Specifications

| BLUE-S | -TI | -TE | -THI / - THE | | -TC | -RT | -V | -C |
|---|---|---|---|---|---|---|---|---|
| Measurement Channels | Temperature 1ch | Temperature 1ch | Temperature 1ch | Humidity 1ch | Temperature 1ch | Temperature 1ch | Voltage 1ch | 4-20mA 1ch |
| | | | THI – internal sensor THE – external sensor with 1 meter cable | | | | | |
| Sensor | Digital Sensor (Internal) | Digital Sensor (External probe) | Digital Sensor | Digital Sensor | Thermocouple: Type K, J,T,S,B | Pt100 2/ 3-Wire | – | – |
| Measurement Units | °C, °F | °C, °F | °C, °F | %RH | °C, °F | °C, °F | mV, V | mA |
| Measurement Range | -30 to 70°C | -40 to 150°C | -30 to 70 °C | 0 to100 %RH | K: -195°C to +1350°C J: -100°C to +750°C T: -200°C to +400°C S: 0°C to 1760°C B: 250°C to 1820°C | -200 to +600°C | 0 to 200mV 0 to 1/3.6/5/10V 0 to 5V Scalable to -1999 to +9999 | 0 to 20mA 4 to 20mA (Factory Set) Scalable to -1999 to +9999 |
| Accuracy | ±0.3°C | ±0.3°C | ±0.3 °C | ±2 %RH at 25 °C, 50%RH | Thermocouple Measurement Types: K,J,N,R, S,T,E and B ± (0.5°C+0.5% of mV) | PT-100 at 25 °C ± 0.1°C ( 0 to 60°C) ± 0.2°C(-100 to 200°C) ± 0.5°C(beyond range above) | | |
| Measurement Resolution | 0.01°C | -99.99 to +99.99°C 0.01°C Beyond range above 0.1°C | 0.01°C | 0.01 %RH | K, J, S, N, R, S, E, B: 1 °C T: 0.1 °C | -99 to +99°C 0.01 °C Beyond above range 0.1 °C | 200mV: 0.1mV For 0-1/2/5/10V 0.01V | 0.01mA |
| Response Time | Approx. 10 sec | Approx.:10 sec | Approx. 10 sec | | Approx. 10 sec | Approx. 10 sec | Approx. 5 sec | Approx. 5 sec |
| Logging Capacity | 16000 readings Optional 40,600 readings | | 8000 per Channel (Optional 30800 per Çh) | | 16000 readings (Optional 40,600 readings) | | | |
| Recording Interval | Select from 15 choices: 1, 5,30, 60 sec. or 1, 5, 10, 15, 30, 60, 120 min or 2Hr, 6Hr, 24Hr | | | | | | | |
| Recording Mode (*2) | Endless (Overwrite oldest data when capacity is full) or One Time (Stop recording when capacity is full) | | | | | | | |
| LED Indicators | Flashing RED LED indicates the alarming condition. Flashing Green LED Connected with App / system/ Gateway. | | | | | | | |

| BLUE-S | -TI | -TE | -THI / - THE | -TC | -RT | -V | -C |
|---|---|---|---|---|---|---|---|
| Communication Interfaces | MIIG-BLUE APP/ BLUE-DESK PC software <Between Logger Unit(s)- smartphone/ PC/ Data collector> Bluetooth 5.0 (BLE) Freq 2.4Ghz, Range: Approx. 30m unobstructed. BLUE-NET/ BLUE-WEB software <Between Logger Unit(s) - GATEWAY > Bluetooth 5.0 (BLE) Freq 2.4Ghz. Base station connects device to BLUE-NET/ BLUE-Web software. | | | | | | |
| Data Download | The recorded data can be either directly downloaded to a smartphone or computer, | | | | | | |
| Log Start/Stop setting | Start Delay: Settable by software; Start Mode: By button/ software; Stop Mode: By button/ Memory full /software | | | | | | |
| Power | Lithium Battery: ER14250½ AA 3.6V Lithium Battery Replaceable | | | | | | |
| Battery Life (*2) | Approx. 6 months (*1) | | | | | | |
| Dimensions | H 65mm x W 50mm x D 20mm | | | | | | |
| Weight | Approx. 45g +/- 20g (based on model) | | | | | | |
| Operating /storage Environment | -30 to 70°C | | | | | | |

*1: The battery life is based on the following usage conditions: Recording at 5 minutes (or longer) intervals, Current Readings Transmission every 15 minutes, and Recorded Data Transmission once in a day. Battery life also varies depending on ambient temperature, radio environment etc.

NOTE - THIS CATALOGUE IS UNDER PREPARATION – 01-MAR-2022

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## DEALER DETAILS:

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V2.3.22    *The specifications listed above are subject to change without notice.*