

Automatic Weather Station

Compact Series

Compact Series AWS having the industrial grade micro controller ensure the reliability, accuracy and continuous performance in the toughest weather condition. **Compact series** AWS is the best choice for the research works in the market. Design makes easy to installed by one person and reduce the transportation cost. AWS **Compact series** all model comes with the tripod stand, solar panel and battery an intelligent solar and AC power circuit make the system self-powered.

BHM **Compact Series** AWS is categorized the four models **Compact 3 in 1** | **Compact 5 in 1** | **Compact 6 in 1** | **Compact 7 in 1** which can be selected by the user according the measuring weather paramant.

Model **BHM-Compact-6 in1** data Logger having the facility of the measuring the Temperature, Wind Speed, Wind Direction, Relative Humidity, Dew Point, Solar Radiation and Rainfall. All the above model measuring the Data logger for the collection of real time data automatically. **16 X 2** alphanumeric display and **1 X 4** keypad is provided at front of data logger for programming data logger and monitoring sensor reading at site without the help of computer.



DATA LOGGER -VIEW

| PROFESSIONAL LINE | SPECIFICATION |
|----------------------------|--|
| Model | Compact-datalogger version v-21.7 |
| Display | 16 Characters x 2 Lines alphanumeric display (Auto Light on when touch the keypad button) |
| Measured Parameter | Date, Time, Air Temp. (°C), Max Air Temp.(°C), Min Air Temp. (°C), RH (%), Max RH (%), Min RH (%), Wind Speed (m/s), Maximum wind speed (m/s), average wind speed (m/s), Wind Direction (Deg), Rainfall (mm), Air Pressure (hpa), Dew Point (°C), Battery (volts) |
| Real Time Clock | Stability long-term: ±1 ppm / year Stability (temperature): ±3.5 ppm or better form -40° to 85°C |
| Logging Rate | 1 min to 1 hours |
| Data Storage | 16 GB (sufficient for more than 5 years of logging in 1 min. logging rate) |
| Logger Power supply | 5 volts |
| RTC Battery Life | < 5 years in continuous operation |
| Clock accuracy | ±5 seconds per year |
| Keypad | 1 x 4 on front of the datalogger programming and check the sensors Realtime reading |
| Logger Programming | Through given keypad in front of the logger |
| IP rating | IP 65 |
| Operating Temp. | -40°C to 75 °C |
| Operation Humidity | 0 to 95% no-condensing |
| Data Retrieval | SD Card and RS 485 (Optional) No need of any software direct copy and past |
| Data Transmission | GPRS telemetry OR WIFI in IOT (optional) |
| Watchdog timer | System Reset Upon Microprocessor Failure |
| Weatherproof Encl. | IP 67 weatherproof enclosure provides Optional |

BATTERY, SOLAR PANEL AND SOLAR CHARGE VIEW

| PROFESSIONAL LINE | SPECIFICATION |
|----------------------------------|--|
| Model | BHM-COMPACT-BAT |
| Output Voltage | 5 Volts DC Reverse Polarity |
| Protection | Battery over Charge Protection Battery over Discharged Protection |
| Battery Charging | Provided Inbuild solar charging Circuit through Battery management System OR 220 volts AC supply (optional) |
| Battery Life | More than 2 years |
| Battery Voltage & Amp | 5 volts and 20 AMP Soft Start Charging or good health of battery |
| Advance Feature | Battery Temperature measurement inside Disconnect charging when temperature of batter goes high than normal |
| Solar Panel | 6 volts 2 Amp |



SENSORS-VIEW

Temperature & Humidity

PROFESSIONAL LINE

SPECIFICATION

Air Pressure

Model: BHM-S-THA



| | |
|-------------------------------------|------------------------|
| Measuring range temperature | -40° C to 123 ° C |
| Measuring humidity | 0 to 100 % |
| Accuracy temperature | ± 0.3 ° C @ 5 to 40° C |
| Accuracy rel. humidity | ± 2% @ 20 to 80 % |
| Resolution of temperature | 0.01 ° C Typical |
| Resolution rel. humidity | 0.05 % RH Typical |
| Operating condition | -40°C to +70 °C |
| | 0...100 % |
| Supply voltage | 0 to 5 volts |
| Weather shield | IP 65 provided |
| Dew point | Calculated Provided |
| Measuring range air pressure | 300 hPa ~ 1100 hPa |
| Accuracy air pressure | ±0.12hPa or better |



Wind Speed

PROFESSIONAL LINE

SPECIFICATION

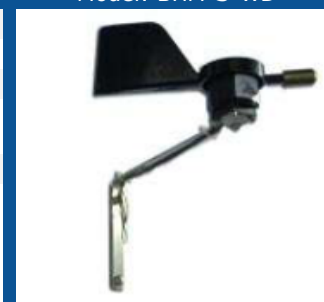
Wind Direction

Model: BHM-S-WS



| | |
|---|--|
| Measuring range wind direction | 0 ° to 360 ° |
| Measuring range wind speed | 0.8 ... 50 m/s |
| Accuracy wind direction | 1° |
| Accuracy wind speed | 0.5 m/s at 0.8 ... 5 m/s and 2 % FS at 5.02... 40 m/s |
| Resolution of the wind direction | 1° |
| Resolution wind speed | 0.06 m/s |
| Operating condition | 0...+70 °C • 0...100 % |
| Supply Voltage | 0 to 5 volts |
| Material | Polycarbonate |

Model: BHM-S-WD



RAIN GAUGE

PROFESSIONAL LINE

SPECIFICATION

Model: BHM-S-TBRG-5



| | |
|-------------------------------|------------------------------------|
| Type | Tipping Bucket |
| Measuring intensity | 500 mm/ hours |
| Accuracy of rain gauge | 100 mm / hour, better than ±4% |
| Collection area | 127 cm ² |
| Design | Aerocon for remove the wind effect |
| Resolution | 0.20 mm |
| Operating condition | 0°C to +70 °C 0...100 % |
| Output | Switch / pulse |
| Material | ABS |
| Capacity | Unlimited |



Ordering Information

BHM-compact-Datalogger

DATALOGGER

BHM-S-THA

Temperature, Humidity and Air Pressure Sensor

BHM-S-WS

Wind Speed Sensor

BHM-S-WD

Wind Direction Sensor

BHM-S-TBRG-5

Rainfall Sensor

Accessories

BHM-A-SSS

Stainless Steel Stand

BHM-A-SP

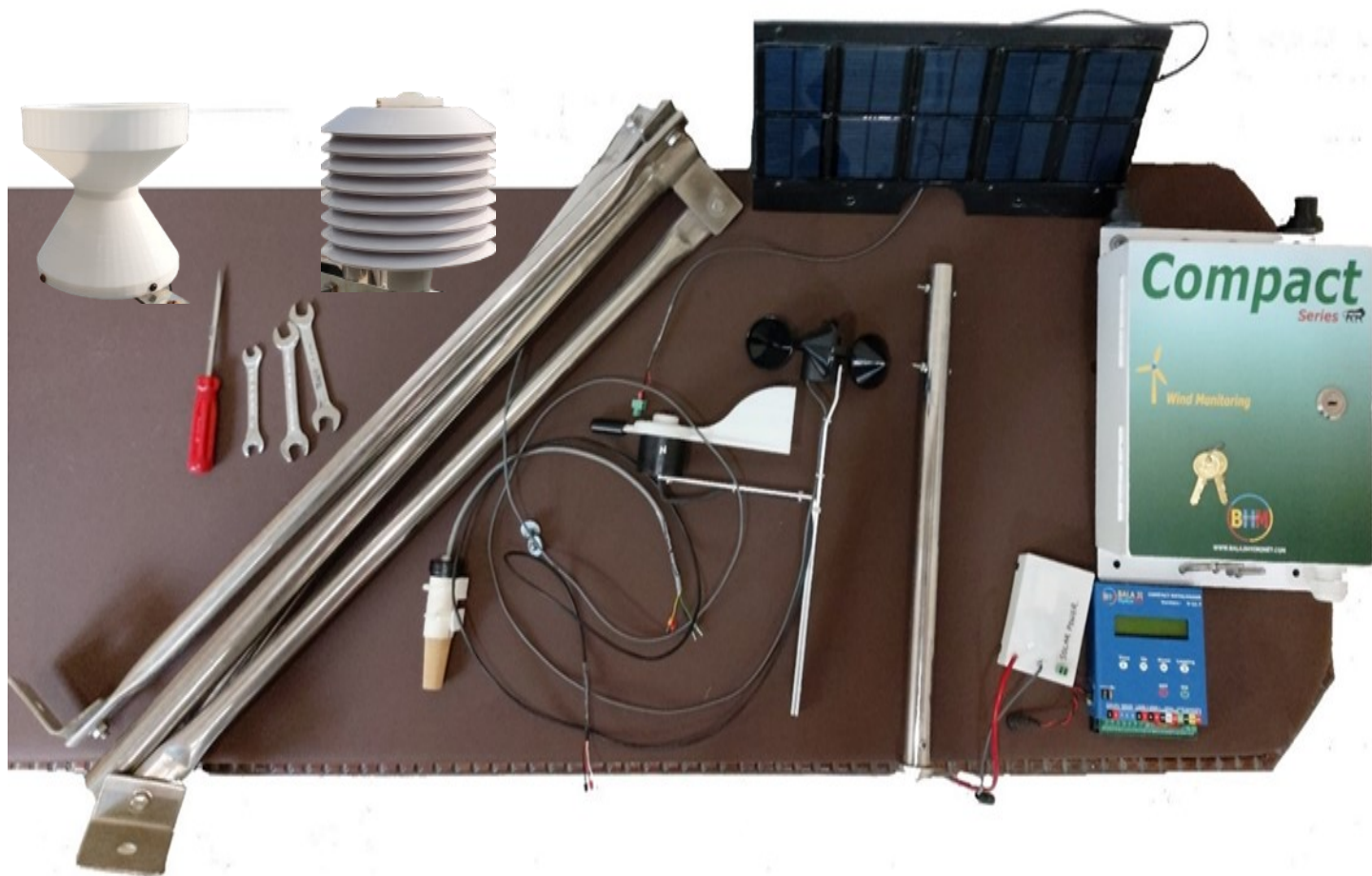
Solar Panel

BHM-compact-BAT

Battery with charging

SELECT YOUR MODEL

| Model Sensors | Compact 3 in 1 | Compact 5 in 1 | Compact 6 in 1 | Compact 7 in 1 | Compact 8 in 1 |
|---------------------------|----------------|----------------|----------------|----------------|----------------|
| Temperature | | ✓ | ✓ | ✓ | ✓ |
| Humidity | | ✓ | ✓ | ✓ | ✓ |
| Rainfall | | ✓ | ✓ | ✓ | ✓ |
| Wind speed | ✓ | ✓ | ✓ | ✓ | ✓ |
| Wind direction | ✓ | ✓ | ✓ | ✓ | ✓ |
| Solar radiation | | | | ✓ | ✓ |
| Air Pressure | ✓ | | ✓ | ✓ | ✓ |
| Open Pan Evaporation | | | | | ✓ |
| SS Tripod Stand | ✓ | ✓ | ✓ | ✓ | ✓ |
| Battery case | ✓ | ✓ | ✓ | ✓ | ✓ |
| Solar panel | ✓ | ✓ | ✓ | ✓ | ✓ |
| GPRS Telemetry | At Extra Cost | ✓ | ✓ | At Extra Cost | At Extra Cost |
| WIFI Telemetry | At Extra Cost | At Extra Cost | At Extra Cost | At Extra Cost | At Extra Cost |
| RS 485 data communication | At Extra Cost | At Extra Cost | At Extra Cost | At Extra Cost | At Extra Cost |



DATA Communication



DATA TRANSFER

Through SD card direct in Excel File no need of the software
Jus Copy and paste to your computer

WIFI COMMUNICATION (optional)

A WIFI shield provided with the PC software user enter the its modem or WIFI dongle User ID and Password and transmit the data to our server for storage and analysing the data. A cost-effective solution if the system installed in the WIFI range, reduced user internet and no need to purchase an individual SIM for a station.

Advantage of this feature for abroad user is that a WIFI dongle user connected to the logger given port. Either it is CDMA or GSM network dongle Logger push the

GPRS Modem

- A GPRS enabled SIM is supposed to be installed in the modem. Based on the Sim Operator, the GPRS settings have to be configured in the modem.
- Once a proper SIM card is inserted and the terminal is switched ON.it will automatically connected.
- The terminal will continuously monitor serial port for messages received from the device connected.
- When modem receives a valid command in the serial port. it will take appropriate action based on the commands.
- Whenever the modem receives command from controller, it will be pushed through serial port.
- Stores Failed GPRS packets in non-volatile memory until system re-stores proper GPRS connection to server (zero data loss).

RS 485 Communication (Optional)

A RS 485 communication provide optional, logger transmitted the data every 1-minute interval with date and time stamp.
 A digital Running display also connected with this communication for the see the current data

BALAJI HYDROMET

Sign In (Registered User Only)

User Id

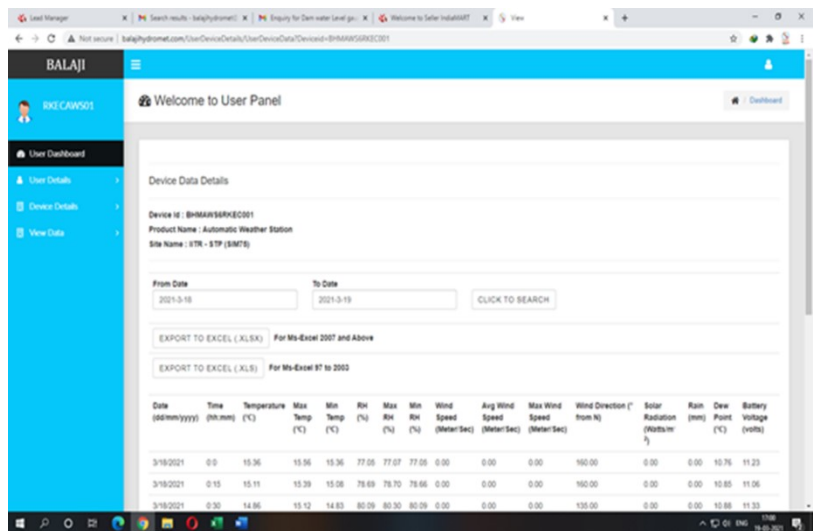
Password

Captcha Code



Input symbols

SIGN IN



Representative

*Drawing & Specification of the Product subjected to be change without any prior notice as per manufacturing suitability and future technology