



Data Logger for Automatic Weather Station (AWS)



Application: AWS

Technical Specifications

Analog Input:

- 6 single Ended Analog Input Channel
- 2 Digital Input/ Output Channel
- 2 Counter Channel

Resolution:

Effective resolution: 18 bits

Linearity: 0.01%

Analog and Digital Sensors:

Supports a wide range of sensors including, but not limited to, those listed below. A wide range of sensor scaling and linearising facilities including polynomials, expressions and functions.

Supports to the sensors like Air Temperature , Relative Humidity , Rain gauge, Wind direction, Wind speed, Visibility Sensor ,Air Pressure, Solar radiation sensor etc.

Data Storage

Internal Store: Capacity: 128MB = approx 10,000,000 data points

External Removable USB store device (optional accessory)

Types: compatible with USB 1.1 or USB 2.0 drives, e.g. Flash drive.

Capacity: approx. 90,000 data points per megabyte

Input Voltage:

Input range: $\pm 30\text{mV}$ to $\pm 30\text{V}$

Inputs Inter-Channel Isolation: 100V (relay switching)

System Display and Keypad:

Type: LCD, 2 lines by 16 characters, Backlight, Display Functions: channel data, alarms, system status, Keypad: 6 keys for scrolling and function execution

Communication Interfaces

Ethernet Port: Interface: 10BaseT (10Mbps) Protocol: TCP/IP

Network (TCP/IP) Services: Uses Ethernet port or integrated modem

Serial: RS232, RS422m, RS485

System Power:

External voltage range: 10 to 30Vdc, Peak Power: 12W

Operating Temperature: -30°C to 70°C , Humidity: 85% RH (without enclosure), non-condensing, 100%RH (with Weatherproof Enclosure)

Real Time Clock: Normal resolution: $200\mu\text{s}$,

Accuracy: ± 1 min/year (0°C to 40°C),

± 4 min/year (-40°C to 70°C)

Modem:

Alarms: Send email or SMS messages, **Data:** Send data to an email address or FTP server, Remote access, SIM interface: SIM Socket (1.8V/3V)

Networks and Frequencies,

Interfaces: GPRS, GSM, 3G. 850/900/1800/1900 MHz

Antenna with 2m cable

FTP Client: Automatically upload logged data direct to an FTP server.

Email Client: Email data or alarms directly from the logger.



Weatherproof Enclosure for Data logger (Optional)

- Consists of Robust Customized Weatherproof Enclosure
- Terminations with cable glands for Interfacing of Data Logger with sensor.
- IP66 Enclosure for the data logger
- Protects data logger from Environmental conditions

Accessories Included

- Data Logger
- Modem (Inbuilt or External)
- Antenna for modem



Configuration Software

- Accessible by Ethernet or integrated modem
- Graphical User interface
- Easy-to-use configuration editor
- Access live and historical data
- View data as charts, mimics and tables
- Automatic Data send on your FTP server and Email
- **Easy Programming through Ethernet, RS232, 485 and USB Pen drive.**
- Download data in CSV format

Graphical interface that allows you to configure your data logger, view real-time data in mimics, trend charts or tables and retrieve your historical data for analysis. Software runs directly from your web browser and can be accessed locally or remotely* (static IP is required), anywhere that a TCP/IP connection is available including worldwide over the Internet. You can use any of the logger's built-in communications ports to view Ethernet and USB.

Data that is compatible with your applications

Logged data is ready to import into common spreadsheet and data processing applications such as Excel for further analysis and reporting. Data can be saved to your computer in comma separated (.CSV) format

Command window

The command window provides a terminal interface which allows the built-in command language of the logger to be used.

Configuration editor

The configuration editor allows you to view, edit and save logger configurations in an easy-to-use Windows Explorer style user interface. Tree view of configuration allows definition of measurement schedules and measurements. Wiring diagrams show available wiring configurations for each Sensor type. Configuration can be stored and retrieved on either the Logger or a local computer.

Allows defined Alarms High and Low Condition Send email and SMS messages,

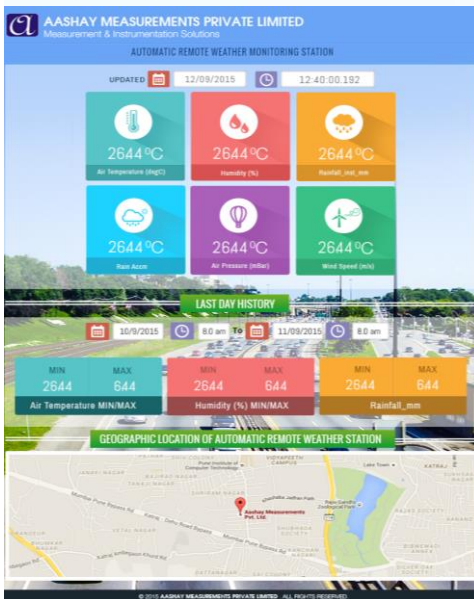
Calculated Channels

Combine values from analog, digital and serial sensors using expressions involving variables and functions.

An extensive range of Arithmetic, Trigonometric, Relational, Logical and Statistical functions are available.

Note:

- *Static IP is required on site for accessing data logger remotely.
- Internet / Charges for network (GSM/GPRS) & infrastructure will be on scope of buyer
- Surge arrestor are not included



Optimal Accessories:

- Batter: 12V (Ah selectable)
- Power supply 12V, 1amp
- Solar Panel (Watt selectable)
- Charge controller
- Weatherproof Encloser for Battery
- Mounting assembly for Solar Panel
- Customised Tripod / Tower
- Customised Remote monitoring Web Application

Specifications: Aashay Measurements Pvt. Ltd. Reserves the right to change product specifications at any time without notice.

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