

- Building Automation.
- Industry Automation.
- Machine Automation.
- Environmental Monitoring & Management.
- Power & Energy Management.
- Multifunctional Data Logging System.
- Digital Signage.
- LED Electronics Information System.
- Agri Electronics Solutions.



All The Technology You need

# INDUSTRIAL AUTOMATION



Smart Data Logger

## INDUSTRIAL DATA LOGGERS



Soil Moisture Data Logger



Portable Data Logger



Energy Data Logger



Temperature Data Logger



Advance Portable Data Logger

# ADVANCETECH INDIA PVT.LTD.

(AN ISO 9001 :2008 COMPANY)

# Environmental Weather Station Data Logger

## Weather Station Data Logger

- ✓ **AdvanceTech India Pvt. Ltd.** is proud to introduce a new generation of weather station technology, our environmental data loggers are designed specifically for recording environmental conditions, with variety of weather sensors, and optional facility for solar power and wireless alerts, and recordings etc.

## Specification

- ✓ System is designed with ARM processors for 8 channel available for sensors.
- ✓ **Display:** 20\*4 LCD Display/ Touch display Panel.
- ✓ **4 channel Analog input, 4 channel Digital Sensors.**
- ✓ **Memory:** SD Card (For Available in selected module only).
- ✓ **Options:** High /Low rate/Trigger mode/Channel Selection/buzzer Alarm.
- ✓ **Log Interval:** 600 samples/sec to 1sample/week.
- ✓ **Supply:** AC operated/Battery Operated/DC Operated.
- ✓ **Data Storage:** In a Excel Sheet, Each records are stored with Time &Date
- ✓ **Relay Interface:** Can be used to interface a +12V DC component.
- ✓ **Data Logging:** Real Time with programmable log and storage time.
- ✓ Software to displays the weather data, and provides high level reporting functions.

## Software

- ✓ Each AWS Weather data logger is supplied with a software which downloads and displays the weather data, and provides high level reporting functions.

## Weather Sensors Specification

- ✓ **Temperature Sensor** Range:-20 to 80 degree c, Accuracy+/-0.3degree c
- ✓ **Humidity Sensor** Range: -0 to 100% RH, Accuracy+/-2% RH
- ✓ **Wind Speed:** - Range 0 to 320 km/hr, Accuracy +/-1m/s
- ✓ **Wind Direction:** - Range 0 to 360 degree, Accuracy +/-5 %
- ✓ **Rainfall Sensor:** - Range 2,438 mm/hr, Accuracy +/- 4%
- ✓ **Barometric Pressure:** - Range 150 - 1150 m bar, Accuracy +/- 1.5% FSS
- ✓ **Solar radiation:** - Spectral Range 400 to 1100 nm, Sensitivity +/-5%

## System Indicators

- ✓ LED indicators provided for simple identification of operating status and mode.

## Optional (Add on Features)

- ✓ Weather data can be displayed on outdoor Large LED Displays.
- ✓ GPRS / Ethernet interface for cloud connectivity.
- ✓ Solar based charge station
- ✓ GSM for SMS alert Facility.



# Soil Moisture Data Logger

## Introduction

- ✓ **Soil Moisture Data Logger** feature latest technology support and helps in logging Moisture content of the soil and log into MS Excel file with proper date & time stamp. Sampling rate can be adjustable from 600 sample / second to 1 sample / week This Data logger can send SMS of the current sensor reading & GPS Coordinate can also be logged.

## Data Logger Features

- ✓ The system is designed with ARM processors for 8 channel available for sensors.
- ✓ **Input:** Up to 4 sensors per Soil Moisture Data Logger.
- ✓ **Sampling Rate:** Readings taken automatically every 600 sample/sec to 1 sample/week.
- ✓ **Display:** 20\*4 LCD Display/ Touch Panel.
- ✓ **No. of Channel:** 10 (4 for analog input/4 for digital input/1 relay 1 RS 485 terminal)
- ✓ **Communication:** GSM/USB/MODBUS.
- ✓ **Enclosure:** weatherproof IP rated Enclosure.
- ✓ **Timing:** Build In Real Time Clock.
- ✓ **Supply:** AC operated/ Battery Operated/DC Operated.
- ✓ **Data Storage:** In aMs Excel Sheet, Each records are stored with Time & Date stamp.
- ✓ **Storage Capacity :** 1 Million Samples.

## Soil Moisture Sensor Probe Features

- ✓ Extreme low cost with volume pricing.
- ✓ Not conductivity based.
- ✓ Insensitive to salinity.
- ✓ Probe does not corrode over time.
- ✓ Rugged design for long term use.
- ✓ Consumes less than 7mA for very low power operation.
- ✓ Measures volumetric water content (VWC) or gravimetric water content (GWC).
- ✓ Output Voltage is proportional to moisture level.
- ✓ Can be buried and is water proof.
- ✓ Probe is long and slender for wider use, including smaller potted plants.

## Soil Moisture Sensor Probe Specifications

- ✓ Power consumption <7mA
- ✓ Supply Voltage 3.5V to 20 VDC.
- ✓ Power on to Output stable 400 ms.
- ✓ Output Impedance 10K ohms.
- ✓ Operational Temperature -40°C to 85°C.
- ✓ Output 0 to 3V related to moisture content.
- ✓ Voltage Output Curves Curves, Piecewise linear equations.
- ✓ Accuracy at 25° C 2%.
- ✓ Shell Color Red.



Soil Moisture Probe



Soil pH Probe



Soil Temperature Probe



# Energy Management System

## Introduction

- ✓ Complete campus Solution for real time energy measurement system for 3 phase supply network, Along with power measurement thru energy meters , for Complete electrical parameters .
- ✓ Facility for reports generations , scheduling etc .
- ✓ Energy Meters Data will be mapped with PLC based MODBUS RTU internal Variables, which will be used for Data logging, Reporting and visualization purposes.

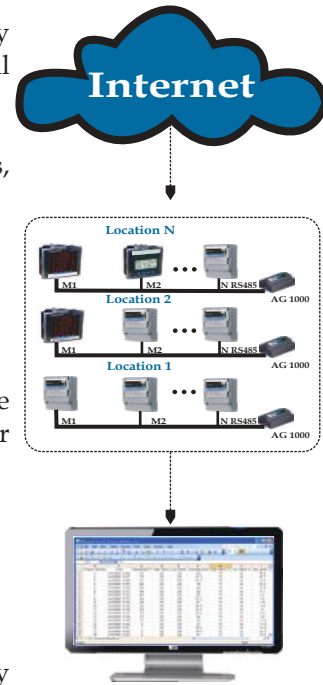
## Analyzing And Reporting & Datalog

Variety of reports can avail by activity, Schedule and types by specific lists:

- ✓ Data Quality ✓Exception Reports ✓Alarm handling packages ✓Display Groups
- ✓ Data Logging ✓Historical Data Trending ✓Dashboard ✓Matrix
- ✓ Reports can be visible and downloaded by any formats provided and schedules can be modified based on convenient time. Schedulers will automatically run according to our initial configuration.
- ✓ Trends- single and multiday min, Max & Avg.
- ✓ Table View - Single and multiday data export to excel, Alarm, Min & Max.

## Email/SMS

- ✓ Daily Report can be sent.
- ✓ Day log book, Hourly-Day energy, Shift energy, TOD energy, Min Max, Flexi `energy report and abnormal Alarm conditions.
- ✓ SMS : Abnormal Alarm conditions, Hourly and daily Energy.
- ✓ Customized is possible for any kind of Email/SMS option.



Server PC with EI Net Software

## Advance Indoor / Outdoor LED Display Boards

- ✓ We offer various advance out door LED display boards and do customized projects.
- ✓ We display industrial parameters , like temp , humidity , etc .
- ✓ Customized information display for various locations ,using LAN network .
- ✓ The same display boards can be used for video walls , public information system etc , Size can vary from 1x1 to 12x12 Fits etc .

## Indoor digital Information System ( Digital Signage Solution )

- ✓ We offer advance indoor network based display system for live information update ,
- ✓ With a click , one can send any image based promotional messages , for public display .
- ✓ The same display boards can be used asa digital Notice boards for , public informationsystem etc , Size can vary from 32" to 40" inch display , long life .

## Industrial Display

- ✓ We offer complete industrial display solutions ,these displays are Modbus Compatible and can be connected with 485 bus for , to display real time data , in various formats .
- ✓ These displays can be customized for various character size also .
- ✓ Can be connected thru GSM , GPRS , ethernet , etc .



## AdvanceTech India Pvt.Ltd.

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## Authorised Dealer