



AUTOMATIC WEATHER STATION

FEATURES

- * Rugged construction.
- * Reliable.
- * Easy installation.

APPLICATION

The weather station has become essential for the measurement of metrological and climatic condition in a continent and virtually near the Hydroelectric Project, Dam, Barrage etc. Weather station network provide regional and local real time data for weather forecasting, local warning and climatic modeling.

DESCRIPTION

SME model 2150 automatic weather station includes Data Logger along with rechargeable battery to record automatically and continuously the parameters as wind speed, air temperature, rain fall & relative humidity of the nearby atmosphere. SME offers high quality and reliable sensors for measuring the above parameters.



The data logger having the following specification.

- | | |
|-------------------------|---------------------------------------------------------------|
| * Display | : Through Monitor attached. |
| * Keypad | : Through key board. |
| * Data storage capacity | : 1GB / 30 days. |
| * Power supply | : 24V. 7.6 AH maintenance free battery OR through Solar panel |
| * Battery charging | : Through 230V AC |
| * Data logging interval | : 1hour interval or as required |
| * Data retrieval | : Through special software & cable |
| * Operating temperature | : -10° to 80°C with RH 0 to 99% non condensing. |

SENSORS SPECIFICATION:-

1) Wind speed:

sensor : 3 Cup Anemometer
Sensing : Opto coupler
Range :- 0.5 to 100 ms.
Accuracy : Better than 0.5 m/s.

2) Air temperature:

Type :- Digital sensor
Range :- 0° to + 60°C.
Resolution :- 0.1°C typical.

3) Rain fall.

Sensing : Through tripping bucket .
Maximum : 10 mm/min.
Least count : 0.1 mm
Material : Non corrosive

4) Relative humidity

Type : Digital sensor
Range : 5% to 99%
Accuracy : $\pm 2\%$ @ 20 to 80%
Resolution : 0.1% RH

POWER SUPPLY

Battery pack 24V - 7.6 AH. OR through Solar Panel.

Due to continuous development program the specification and dimensions are subject to change without notice. Our engineers do undertake the work for development as per the customer's requirement.

Sensors & Measurements Enterprises

Works cum office : A-65(1), Govt. Industrial Estate Talkatora Road, Lucknow-226011,
Telefax: 0522-2661617, mob. +91-9415101236, 9565563203 email: smeprajapati@gmail.com,
smegeotech@gmail.com, website: www.smegeotech.com.