

# WIND MONITORING SYSTEM ECOTECH

## MODEL WM 721

### BACKGROUND

Measurement of Wind pattern is critically needed to understand monitoring air quality data and for air quality modelling and management. Meteorological data are back bone of dispersion modelling also where prediction of incremental ambient air pollutant concentration is mainly depend upon emission load and prevailing met data of an area. Met data measurement need to be done at 10m above the ground level.

### ECOTECH WM 721

WM 721 is fully automatic wind monitoring system fitted with 8 channel data logger user can select averaging period from 1 minute to 99 hour as per requirement. WM 721 supplied with rechargeable battery so that if power is not available recording remain continue upto 12 hrs. A 3 meter high stand for sensor mounting is supplied with WM 721. Each sensor fitted with 3 meter long cable.



Data logger has facility to transfer data either through SD card or optional RS 232/485 to USB modbus. Memory of the logger is enough to record more than 4 months meteorological data with log frequency of 1hr for all sensors. A windrose preparation software is provided with each WM 721 using which coloured circular wind rose diagram can be drawn for required period. All data from logger is transferred in Excel sheet. Software is with any operating system equipped with MS Excel.

### **SPECIFICATIONS WM 721 – STANDARD UNIT**

Data Logger	8 channels micro processor based with 2x16" character display, live data (optional) and data storage more than 4 months
Wind Speed	Range 0.5 to 60 m/s 3 Cup Anemometer Accuracy 0.5m/s Resolution 0.1m/s Threshold – 0.3 m/s
Wind Direction	Range 0 - 360°C Resolution 1° Accuracy $\pm 3^\circ$ Threshold 0.5°/sec
Temperature	Ambient Temperature Temperature at different heights (Optional) Range - 40 to + 60°C Resolution 0.1°C Accuracy 0.2°C
Relative	Capacitor Type Fitted in weather shield Resolution 0.1%

Humidity	Range 0-100% Accuracy $\pm$ 3% full scale
Rainfall	Accuracy $\pm$ 5% Resolution 0.5mm
Barometric Pressure	To measure atmospheric pressure Accuracy $\pm$ 5% Resolution 1 mmHg
Software	For preparation of circular wind rose diagram from Excel sheet
Power Requirement	220V $\pm$ 10V, System has power backup of 12 hours For solar panel system 1 rechargeable battery provided
Data Transfer	Using portable SD Card or using (Optional) RS232 cable for viewing live data of Wind Monitor WM 721
Software	For preparation of circular wind rose diagram from Excel sheet
Data Viewing	No additional software required to view downloaded data from data logger Downloaded data can easily be seen in excel sheet

### ADVANTAGES

- WM 721 is having latest electronic component and software which compatible with any latest operating system.
- 8 channels are existing and one can add needed sensor as per requirements.
- As alternate power given by battery fitted in WM 721 is adequate to operate it for 12hrs.
- Power consumption is only 200 mill-amperes. Battery fitted in AWM can support system for 12 hours.
- More Than 4 month data can be stored in the memory logger for all parameters. Data remain in the logger even after copied in pen drive.
- Data transfer by using Data Shuttle or by RS 232 thus, logger is never required to be brought to PC for data transfer
- Data transferred directly go to Excel Sheet. Thus data can be handled easily the way required Wind Rose Diagram preparation software is provided with WM 721
- Calibration Certificate is provided with traceability
- Excellent after sale service support provided.
- Ecotech WM 721 Logger have in built calibration facility so that it can be calibrated in field.

## WARRANTY

**ALL ECOTECH PRODUCTS CARRY ONE YEAR WARRANTY**

For pricing information and queries contact:



## **ECOTECH INSTRUMENTS**

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