

Spatika



Varsha

TRG-GPRS

Telemetric Rain gauge



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VARSHA-TRG-GPRS is an innovative product for automatic recording and transmission of rainfall data. It uses GSM/GPRS technology for data transmission.

VARSHA-TRG-GPRS is integrated product consisting of rain gauge sensor unit and data logger unit

The sensor unit works on Tipping Bucket principle. Here water falls on one half of tipping bucket that tips over when a certain volume of water is collected, bringing the other half to collect the water. This process continues as long as it rains. The tipping mechanism causes momentary closure of a switch. Because of tipping bucket mechanism, water automatically flows out of rain gauge thus ruling out need for manual emptying.

The data logger connected to the sensor counts each tip and calculates the rainfall. The data recorded is stored in local storage of data logger and can be accessed through its LCD display.

Additionally, the data is also sent to a central server through GPRS data communication.

The Data Logger unit is an integrated microprocessor based data acquisition and storage system to serve as an interface between sensors and the communication link.

Features:

- ▶ Near real time rainfall data availability at user end.
- ▶ Rainfall recording at user configured interval
- ▶ Measurement with resolution of 0.25 and 0.5mm
- ▶ Rainfall data storage of 15 min recording up to a year in device
- ▶ Early warning SMS alert when rainfall reaches a threshold value
- ▶ GSM/GPRS interface to transmit data to central server.
- ▶ Flexibility to accommodate different GSM Service providers
- ▶ Battery and solar powered operation
- ▶ Remote configuration of data logger for various parameters.
- ▶ Easy calibration check facility
- ▶ Certified by Indian Meteorological Department (IMD)

Applications:

- Climatology and Meteorological studies/research
- Drought monitoring
- Weather based Crop Insurance applications
- Weather forecasting and Early warning systems
- Watershed management Application
- Water management
- Urban flood management

Specifications

Sensor:

Type:	Tipping Bucket based
Resolution:	0.25 and 0.5
Accuracy:	1% (up to 50mm) 2% (Above 50mm)

Data Logger: Microprocessor based data acquisition and storage system

Power:

Battery:	12V/7Ah /Suitable Backup
Solar Panel:	10w/20w /Suitable Backup

Our Meteorological and Hydrology related Products

1. Automatic Rain gauge
2. Automatic Weather Station
3. Digital Water Level Recorder
4. Ultrasonic Level sensor
5. Sensors – Rain gauge, Temperature, Humidity, Wind speed, Wind direction, solar radiation, water level