

EARLY FLOOD WARNING SYSTEM

Virtual
Hydromet

REAL-TIME ALERTS | SMART MONITORING | SAVE LIVES

Early warning systems are an important component of disaster risk management strategies. In contrast to flood forecasting systems, which assess flood risk, the main purpose of early warning systems is to issue warnings when a flood is occurring.

It uses a radar Level sensor for water level measurement in River and Rainfall Sensor as a base input parameter. This system has capability to incorporate Radar Velocity Sensor (Optionally at extra cost) for discharge measurement using discharge data to executive remote alarm.

SYSTEM OVERVIEW



TRANSMITTER SPECIFICATION

Parameter	Specification	Parameter	Specification
Display	LC-Display, 2 lines, 16 characters	Inputs	Max. 4 x 4 - 20 mA analog input channels, 2x digital
Keyboard	8 keys	Outputs	Max. 4 x 4-20 mA analog output channels, 1x Relay, 1x digital
Data logger / memory	2 GB Micro SD card	Operating temperature	-20°C to +70°C
Power Supply	85 - 260 VAC (50-60 Hz) or 9-36 VDC	IP Classification	IP 65

MOUNTING MAST & SOLAR PANEL

Mast	GI Mast with sensor brackets.
Solar Panel	Output Voltage: 12 Volt DC, Wattage: 100 Watt (as per system power requirement)

KEY FEATURES

- Non Contact Radar type Level Measurement
- Rainfall Measurement
- Discharge measurement (Optional at Extra Cost)
- Inbuilt Telemetric Data logger
- Dual Data Download Facility (USB & GSM GPRS)
- Online Data download through Webspaces
- SMS Alert Facility
- One Wireless Hooter Alarm Alert Provided in Down Stream
- System can be connected to more numbers of Wireless Hooters at Extra Cost
- Hybrid Power System: Works on 230 V AC & Solar Power

RADAR FLOW METER / INTEGRATED RADAR FLOW METER SPECIFICATION

Parameter	Specification	Parameter	Specification
Measuring Principle	Planar Microstrip Array Antenna (CW + FMCW)	Operating temperature	-35°C to +70°C
Frequency (radar)	24 GHz	Operating Voltage	7-32 VDC
Beam Angle	12°	Operating Current	≤120 mA (@12 VDC)
Range	0.03 to 20 m/s	Protection class	IP68
Accuracy	±0.01 m/s or ±2% FS	Data Interface	RS485 (Default), RS232/SDI-12 (Optional), Modbus
Maximum Measuring Distance	Up to 40 m	Analog Output	4-20 mA (Optional)
Measurement Direction	Automatic Flow Direction Detection	Storage Temperature	-40°C to +70°C

RADAR BASED WATER LEVEL SENSOR SPECIFICATION

Parameter	Specification	Parameter	Specification
Output Signal	4-20mA/HART	Resolution	1 mm
Resolution	1 mm	Measuring principle	pulse runtime procedure
Damping	0...999 secs	Current consumption	22.4 mA
Max Measuring Range	User Specified	Radiation angle	10°
Measuring range	0 - 15 / 35 meter	Sensor protection	horn antenna (75 mm Ø)
Accuracy	±2 mm	Operating Temperature	-40 to +85°C

An arrangement of Two Post-paid GPRS-Active GSM SIM Cards is in buyer work of scope. There should be Network Coverage Availability at the installation site. For Data Access Free Web-space will be provided for 1year & will be chargeable afterwards.



APPLICATIONS

The Early Flood Warning System is used for real-time monitoring of river water levels and rainfall to provide timely flood alerts, helping protect lives and property. It is suitable for dams, rivers, reservoirs, and disaster management applications.

S.no	Description	Type	Model No
1	Early Flood Monitoring System	Level Based	EFWS-VH-L
2	Early Flood Monitoring System	Discharge Based	EFWS-VH-D

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1105/1, Salempur Rajputana Industrial Estate
Roorkee- 247667, Haridwar, Uttarakhand, INDIA
Tel: +91-7088-772-772
Email: vhydromet@yahoo.com
Website: www.vhydromet.com

OUR TECHNOLOGY PARTNER:

Optical Sensors Sweden AB
Stora Badhusgatan 18 Hiss 4 Vän. 2,
Se - 411 21 Göteborg, SWEDEN

* Drawing / specifications are subjected to change at any time without prior notice as per manufacturing suitability.