

Smart Flood Sensor.

Introduction

Smart Flood Sensor is an electronic device that is designed to measure the water level. Flood sensors measure level within a specified range, It can detect the level & distance of water up to 10Mtr of range. The battery backup of the device is more than 168 hrs.

Features

- This device can be installed beneath the bridge or at flood sensitive area.
- Device ID with Level, will sent to server on Real-time basis.
- This device is powered by Li-polymer 52 Ah battery.

- This device will automatically push encrypted data into a secure server.
- NEMA 6P enclosure to sustain in harsh environment.
- Micro SIM Support.
- 230 volts AC power supply for continuous operation and charging.

USES:

Smart Flood Sensor is most useful for flood sensitive area, the flood sensor is helps to preventing damage when a disaster arises. It can use on Dams, Bridge.





Specifications:

S. No	Parameter	Value
1.	Microcontroller	Arm 32-bit Microcontroller, 64kb Program memory 20kb RAM.
2.	I/O pins	Total 48 pins, Low power consumption 3.3V
3.	GSM/GPRS Band	2G Bands GSM: 900MHZ, 1800MHz, Narrow band.
5.	Device Identification	Every device has unique registered IMEI (International Mobile Equipment Identity) number.
6	Device critical zone	In case absence of GPRS network the device stored up to 1000 data and when it has proper GPRS signal strengths comes its ends the data to the server.
7.	Operating Temperature	-25°C to +75°C.
8.	Level sensor	Range 10 M , Measuring Angel– 15 degree, Voltage Supply 3.3V
9.	Multi Internet Protocols	TCP/UDP/FTP/PPP/HTTP/NITZ/NTP/PING/HTTPS/SSL/MQTT
10.	Antenna	On board antenna
11.	Interface	UART Data bits: 8 ,Stop bits: 1, 2 , Checksum: none, odd, even Baud rate: 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600
12.	Antenna connector	SMA female / Antenna Pad/U.FL, the characteristic impedance of 50ohms

13.	Device methodology	When the Level of the water changes, it will the sense the change in leveland send the data to server.
14.	Power source	230V ac supply
15.	Battery Charging Voltage /current (Max.)	4.2±0.03v/0.5 C ₅ A ,weight 45.0±2.0g
16.	Battery back-up	Up to 30 days.
17.	Dimension	250mm x 170mm x 100 mm.
18.	Weight	4 kg.