SMART FLOOD DETECTION

TEKNOVATE SOLUTIONS

Data Sheet

Teknovate Smart Flood monitoring is a Low Power long-range wireless radio frequency technology (LoRaWAN) based device. This highly secured data transmission technology required for Internet of Things (IoT) applications enables real-time communication of data and analytics that can be utilized to enhance efficiency and productivity.

The device is designed with contact Sensors for monitoring the sewage level. These contact sensors can be placed at multiple Levels (Eg: low, medium, high), as per customer requirement. When the sewage water gets in contact with one of the sensors, the device communicates with the LoRa Gateway using the standard LoRaWAN protocol and the data is transmitted to the network server. The web application processes this data and takes appropriate action like sending SMS, E-Mail and alerts to the registered users

Device Features

- Early warning of preventable blockages, such as water tank, flood detection, waste water.
- Designed with Contact/Wired sensor.
- Contact sensors are placed as per customer requirement
- Alarms and notifications when liquid levels exceed critical thresholds via SMS & Email to the registered User
- Live data monitor on web.
- Historical analysis and Data management
- Map of sensors
- Responsive user interface
- User control profiles

Applications

- Water Level
- Waste Water Management
- Tank Level
- Liquid Level
- Rain Water'
- Flood Detection

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Technical Specifications

Wireless Frequency Band	EU 863~870 MHz / US 902~928 MHz / India 865~867 MHz / AS 923 MHz
Modulation	Based on IEEE 802.15.4g
LoRa Solution	Semtech SX-1276
Receive Sensitivity:	Typ. -136dBm @BW=125KHz with SF=10
Transmit Power	20dBm
Number of Channels	Configurable 64 channels (SKU-US) Configurable 8 channels (SKU-EU) Configurable 3 channels (SKU-IND)
Security	AES128
Operating Voltage	2.2 V DC to 3.7 V DC
Operation	Both Battery Powered / AC Powered
Antenna Type	Internal / External
Sensor Type	Contact Sensor
Sensor Material	SS 316
Operation Temperature	-20ºC to 70ºC
Protection Requirements	IP65

About Teknovate

Today's dynamic world demands businesses to respond quickly through realizing automation in the end-to-end procedure. IoT technology is transforming the way we connect to the devices automatically. Service providers must adopt scalable, flexible and agile models to tap the client's requirements and expectations. Teknovate Technologies Pvt Ltd has responded to this market trend and developing robust and innovative smart city products for its customers.

Driven by over decade of industry experience, highly skilled technicians and wide geographical presence, we are continuously expanding our business worldwide and giving stiff competition to other IoT product manufacturers. We supply our products for various business verticals.

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For more information about the Teknovate solution email us at iot@teknovateinc.com

Please visit www.teknovateinc.com