

SMART LEVEL/DISTANCE

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Data Sheet



Teknovate Smart level/distance 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 an Ultrasonic Sensor for measuring level or distance. Once the sensor measures the level/distance, 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

- Ensures live monitoring of liquid level
- Designed with Ultrasonic level sensor
- Maximum Sensor Range: 3 meters, 5 meters and 10 meters
- Parylene and Fluorosilicone coated to prevent chemicals effect
- Historical analysis and Data management
- Gives Alarms and notifications via SMS and Email to the registered User
- Map of sensors
- Responsive user interface
- Live monitoring of data on web
- User control profiles

Applications

- Water Level
- Waste Water Management
- Tank Level
- Liquid Level

Technical Specifications

Modulation	Based on IEEE 802.15.4g
Wireless Frequency Band	EU 863~870 MHz / US 902~928 MHz / India 865~867 MHz / AS 923 MHz
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	AC Powered
Antenna Type	Internal / External
Sensor Type	Ultrasonic
Current Consumption	3.4 mA
Operation Temperature	-20°C to 70°C
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.