SMART WATER QUALITY

TEKNOVATE SOLUTIONS

Teknovate Smart Water Quality supports both GSM and Low Power long-range wireless radio frequency technology (LoRaWAN). 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 rugged and high accuracy free chlorine, temperature and PH sensors. These sensors measures / monitors free chlorine, temperature and pH values in the water.

The device communicates with the GSM network or LoRa Gateway using the standard LoRaWAN protocol and the measured / monitored 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

- Real time monitoring of water parameters
  - ✓ Free Chlorine (0 to 5 PPM)
  - ✓ pH (0 to 14)
  - ✓ Temperature (0° C to 50° C)
- Rugged Sensors with High accuracy
- Historical analysis & Data management
- SMS & Email Alert is configured to the registered mobile number
- Map of sensors
- Responsive user interface
- User control profiles
- Live data monitor on web.

Applications

- Drinking water safety
- Swimming pool disinfection control
- Ballast water treatment and post treatment
- Cooling tower disinfection

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
Network	GSM/GPRS
Operating Voltage	2.2V ~ 12 V DC
Operation	AC Powered
Antenna Type	Internal / External
Sensors	• Free chlorine • Temperature • PH
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