

GroundWater Level monitoring

IoT

Internet of Things is a network of physical objects ('things') for the purpose of connecting and exchanging data with other devices and systems. The GroundWater Level monitoring is an IoT device using LoRaWAN technology.

LoRa

LoRa (Long Range) is a Low-power wide-area network (LPWAN) protocol which allows small data packets to be transmitted and received wireless. LoRa uses the (open) ISM frequency band. The technology can be utilized in a commercial LoRaWAN network or via your own private (local) LoRaWAN network.

About JENG IoT

JENG IoT is a Dutch company designing full turn-key IoT solutions. From sensors, dashboard apps, data analysis to full integration in your IT infrastructure.



- The GroundWater Level monitoring is a solution to remotely measure and configure data logger(s)
- Data processed and stored in JENG cloud platform
- Dashboard app included:
 - Graphical overview on map
 - Historical data overview
 - Data export (e.g. TUF, CSV, XLS etc.)
 - Notifications (email, SMS etc.)
- Easy to connect (push-pull) up to 3 data loggers (Keller)
- No need for external power supply, no need for maintenance and a battery lifetime of 5 years
- Remotely transferred via IoT LoRaWAN® LPWAN

The GroundWater Level monitoring node collects all measurement data from the loggers remotely. It is received, processed and stored in the JENG IoT cloud platform. Via the IoT dashboard app the information is graphical accessible via an intuitive interface (current & historical information).

Our turn-key end-to-end solution provides **real-time** and **online** groundwater level **information** at low costs and possibility to reduce operational costs as there is no need to visit the logger locations. Further quality is improved and operations issues (e.g. data logger malfunctioning, low battery) are detected immediately. In such a case notifications are send out immediately. Configurable to whom and what type of notification is send out (SMS, email)

The JENG IoT cloud platform is extremely flexible and it is easy to integrate the GroundWater Level monitoring into your digital organisations and to comply with your requirements.

Key Features

- GroundWater Level node – connect multiple loggers (max 3) to 1 node
- Long Range Wireless communication (up to 15km)
- Turn-key and easy to install (15 minutes per location)
- LoRaWAN® compatible
 - OTAA (Over The Air Activation)
 - Secure communication (AES)
 - Class A
 - 868 or 915 MHz frequency band
- Battery (replaceable): 2600mAh (3.6V Lithium-thionyl chloride)
 - Battery working time: 5 years
 - Daily transmit
 - Connector: JST or AA battery holder
- Fully integrated internal or external antenna
- IP68
- Operating Temperature: -25°C to 70°C
- Working Environment: Outdoor

AVAILABLE SERVICES

- IoT solutions (turn key)
- Full dashboard app
- Device development
- Technical support
- Online interface
- Advice and consultancy

Turn-key solutions

A full turn-key solution in which the GroundWater Level node is integrated in your environment - wireless real-time button events – is one of the JENG services.

IoT PaaS

The GroundWater Level measurements are handled and processed in the cloud. JENG and partners offer an IoT Platform-as-a-Service in which your Use Case is realized, data is processed or integrated in your own IT infrastructure.

Inhouse development

Other devices and IoT solutions can be in house developed in order to add value to your company.

In case you are interested go to our website www.jeng.io for more information about our products and services.



Packaging

- Product Dimensions: 130mm x 70mm x 65mm
- Product Weight: 250 gram (incl. battery)

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This product is developed by JENG IoT B.V. (The Netherlands). The GroundWater Level monitoring product is under development and the specifications and information as provided in this specifications are subject to change without notifications.