

GT-3 SERIES

Data transmission made easy –
via LTE or NB-IoT

sebaKMT
by Megger®



New with
NarrowBand-IoT

LTE  NB-IoT™

GT-3 Series – Data transmitter for noise level and pressure logger

Monitoring the drinking water network can be time-consuming and costly. Often, in order to read sensors, e.g. noise and pressure loggers, the sensor system must be approached. The GT-3-1 can save you this trouble.

The GT-3 series was designed to transmit data collected by noise and pressure loggers from the measurement point to your office. Using 4G (LTE) or NB-IoT, on-site monitoring is no longer necessary. Save time and money and monitor drinking water network from the office.

NB-IoT technology

NarrowBand IoT, abbreviated NB-IoT, is a radio standard developed to network devices in the Internet of Things (IoT). NB-IoT enables narrowband data transmission and offers very good network coverage because NB-IoT uses existing mobile networks. A significant advantage to conventional mobile devices such as smartphones or cell phones is the very low energy consumption on the end device side. Thus, networked IoT devices can communicate for long periods of time without any problems even with low battery power.

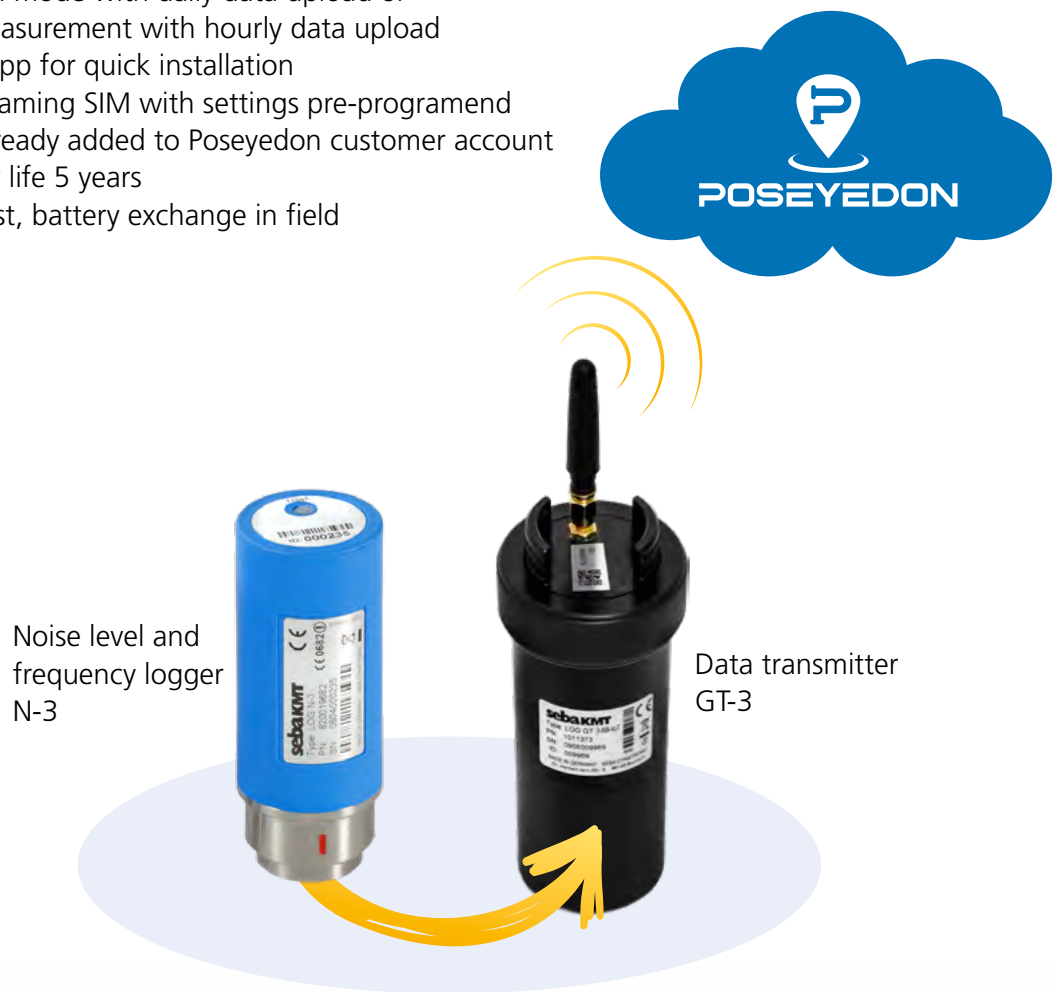
In comparison to the normal mobile network, the radio coverage with NB-IoT is ensured by very high penetration performance even in places that are difficult to access. NarrowBand IoT is an LPWA technology (Low Power Wide Area). It can be integrated into existing mobile networks by network operators for the various applications and is parallel available to the usual mobile radio standards. Compared to GSM, UMTS or LTE, the advantage is that NarrowBand IoT can also be used in places where the range and quality of 2G, 3G or 4G mobile signals are too low, thanks to its good building penetration. NarrowBand IoT is developed for applications where traditional network technologies such as WLAN, DSL, Bluetooth® or cellular are unavailable, impractical or unprofitable.



GT-3 with NB-IoT transmission technology

A new feature of the GT-3 NB-IoT is the possibility to choose between two preset measurement modes. For traditional leak detection, use the night measurement, or select the permanent measurement for 24-hour monitoring at 15-minute intervals.

- Transmission of noise data
- Leak detection mode with daily data upload or 15-minute measurement with hourly data upload
- Smartphone app for quick installation
- Embedded Roaming SIM with settings pre-programmed
- Transmitter already added to Poseyedon customer account
- Typical battery life 5 years
- Simple and fast, battery exchange in field



LTE



Penetration



Data rate



Battery lifetime

NB-IoT



Maximum performance

Maximum efficiency

GT-3-1 with LTE transmission technology

- Parallel transmission of noise and pressure data
- Creating and transmitting sound recordings
- Use of the LTE 4G standard
- Typical battery life of 3 years
- In-field battery exchange possible

Up to three devices (noise level and pressure loggers), can be connected in parallel to the LTE transmitter. This makes it very efficient when it comes to multi-parameter measurement.

Standard uploading of gathered data is once per day, but can be extended to twice a day. Contacting and programming is fully wireless offering the best flexibility and easy workflow.

Surely, all its parameters can also be configured by remote through our latest cloud portal POSEYEDON.



Comparison GT-3 series	GT-3-NB-IoT	GT-3-1 LTE
Battery	1x SAFT LSH14 (5,8 Ah)	1x SAFT LSH14 (5,8 Ah)
Typical lifetime	5 years	3 years
Data transmission	NarrowBand (NB-IoT)	4G (LTE)
Supported loggers	N-3 noise level / frequency logger	N-3 noise level / frequency logger P-3 / P-3-Mini pressure logger
Measurement mode	Night-time measurement (e.g. 2-4 am) Real-time measurement (every 15 min.)	Night-time measurement (e.g. 2-4 am)
Values per measurement	100 (freely adjustable)	100 (freely adjustable)
Installation via	Smartphone App (GPS4GT)	SDV-3 (with laptop and RI) PocketServer PS-3
Battery replacement in field	✓	✓
Protection class	IP 68	IP 68
External antenna	✓	✓



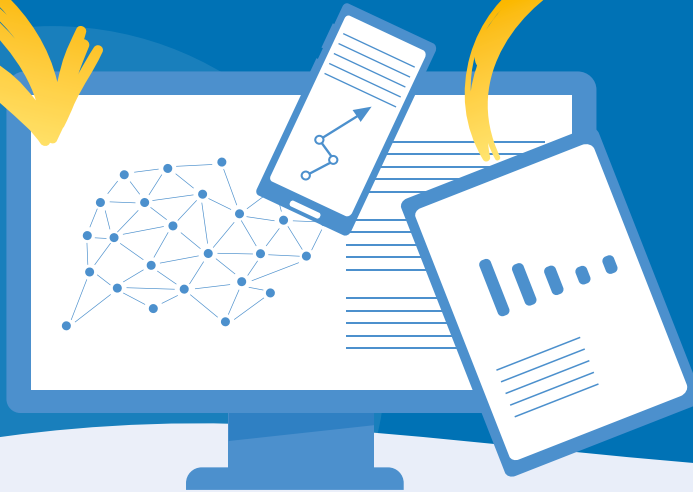
POSEYEDON

Keep an eye on your water network

LTE

LoRaWAN®

NB-IoT



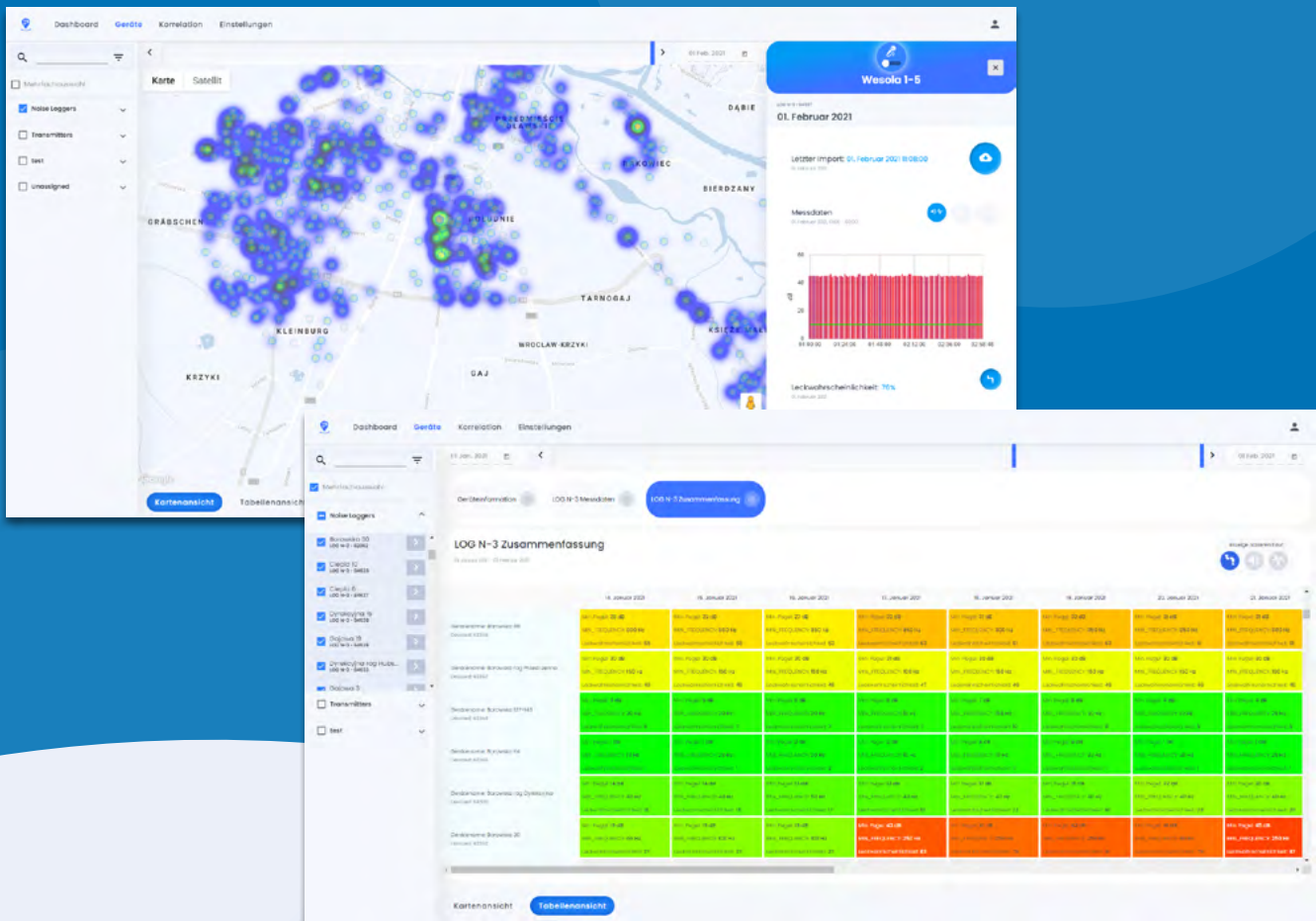
The cloud solution for leak detection and asset management that helps you minimize water losses!

- All live data and evaluations under control anytime and anywhere
- Easy to understand and clear user interface
- Stable, fast, secure and energy efficient data transfer
- Automatic online correlation
- Continuous development of functions (for example, pattern recognition)

Watch our explanation video (2:50 min) for further information.

Simply scan the QR code with a smartphone or visit our homepage www.poseyedon.com





Highlighting areas-of-interest by heat mapping

By using the POSEYEDON Heatmap-function, the map view enables an overview of all areas-of-interest to be obtained in seconds. However, what is special, is that the heatmap shows areas-of-interest with regard to the probability of leakage, as well as device data such as Rssi-quality, battery status, requested or pending sound files, ... All of this can be easily selected using our new Custom-Marker-Switcher.

Pipe-Details-Import & Manual-Pipe-Drawing

Simplified import process of pipe network information based on .kml or shape files, using simple drag&drop. The embedding of such data sets enables POSEYEDON to learn more quickly and to make as precise statements as possible about Thek existence of leaks and Areas-of-Interest. Of course, the handling of manual drawing has also been revised. Regardless of whether a curve, different pipe parameters or materials have to be drawn - with POSEYEDON this is happens online and easy.

Set up device groups easily by drag&drop

The NB-IoT transmitters are now the first SebaKMT devices that are already factory-equipped with an embedded roaming SIM and Ready2Go-preprogrammed standard settings, available in your POSEYEDON customer account. Before, during or after on-site installation, all devices from the clear device pool can be simply and easily combined into groups by drag&drop.

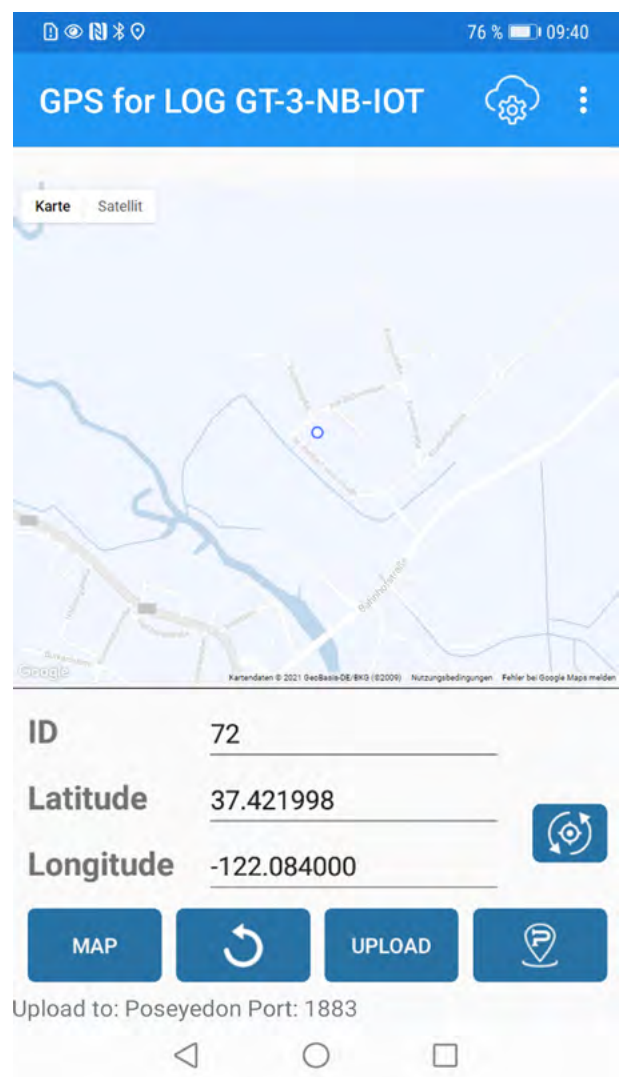
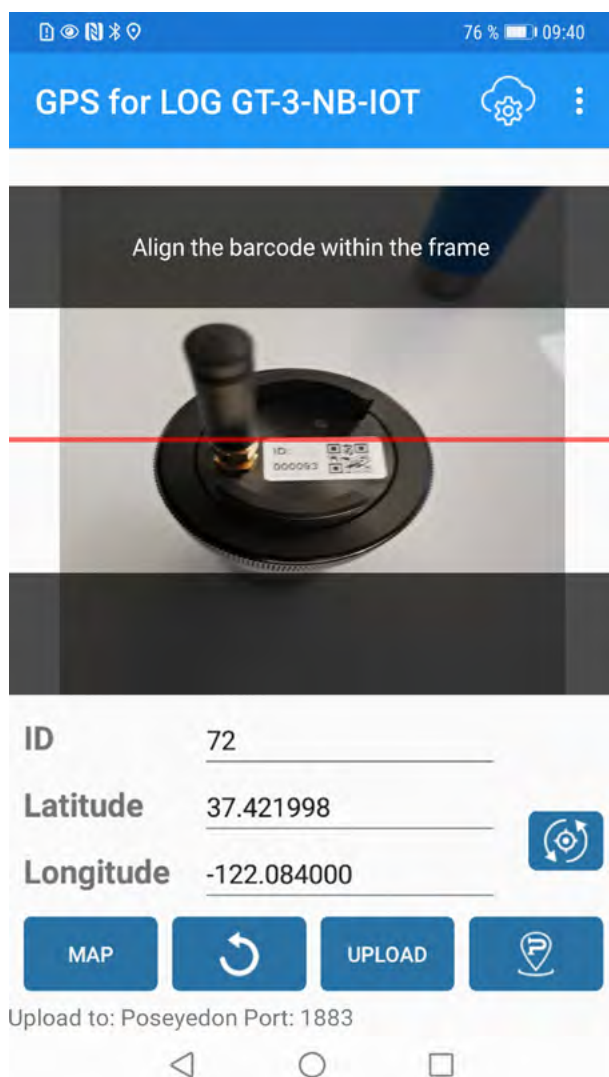
MapView, TableView, GraphView

It is not enough to generate data, it also has to be visualized and processed in various ways. One possibility is to create different views of the same data records. POSEYEDON offers the map view, the table view and soon also a continuous display of the measured data in the form of a graph. Here it is of course important to derive reports, determine leak times and also track device values.

The installation app GPS4GT

The first SebaKMT smartphone app for quick and easy commissioning of the GT-3-1-NB-IoT is already available in the Google PlayStore (Android) and also in the App Store (iOS).

The **GPS4GT** app allows the user to conveniently scan the transmitter using the smartphone camera. It then records the GPS position via the smartphone, links it to the ID of the transmitter and uploads both pieces of information to the customer account within the cloud platform POSEYEDON. Within seconds, the user receives feedback about the successful connection and the updated position of the now active measuring point.



GPS4GT App now available for download



SebaKMT
Megger Germany GmbH · Dr.-Herbert-Iann-Str. 6 · D-96148 Baunach
Tel. +49 9544 - 680 · Fax +49 9544 - 2273
sales@sebakmt.com
www.sebakmt.com

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