

SmartEAR

The smart IoT noise logger for
permanent monitoring and leak detection

sebaKMT
by Megger®

NEXT GENERATION IoT NOISE LOGGER

LTE-M

NB-IoT



ACOUSTIC &
FREQUENCY



SmartEAR

SmartEAR – the new generation noise and frequency logger

Efficiency and premium quality are crucial for drinking water supply. Modern measuring and detection technologies offer powerful tools to efficiently detect leaks in drinking water networks and thus ensure constant water supply through permanent online monitoring.

SebaKMT launches a completely revised noise and frequency logger concept to the market this year. For this purpose, SebaKMT product management investigated about the most important market requirements worldwide, such as overall performance, battery life, maintenance, easy handling, quick installation even for large quantities, attractive acquisition costs, and combined these with the newest technical solutions.

The result is the SmartEAR IoT noise/frequency logger. Robust and durable housing materials paired with a powerful lithium-ion battery enable a runtime of up to 9 years*. Installation can be reliably carried out in a few automated steps within the shortest possible time, using the dedicated developed smartphone app SmartEAR-GO!. Once in operation, the SmartEAR loggers use the intelligent POSEYEDON cloud algorithms to detect, determine and localise leaks in the drinking water network.

Convince yourself about the new IoT noise logger generation SmartEAR from SebaKMT!

SmartEAR datasheet



Don't hesitate to ask for a live demonstration and more information



A notice:

The SmartEAR transmits data via NB-IoT and LTE-M (CAT-M1), to which a sufficient IoT network coverage at the installation site must be given.

NB-IoT and LTE-M network coverage status and information can be given by all mobile phone providers. Alternatively SebaKMT TechSupport can support.





Johannes König
Product manager SebaKMT

“

Customers will be able to drastically reduce leakage rates, minimise water losses, reduce energy and operating costs and quickly amortise initial costs.

“



LATEST RADIO TECHNOLOGY

The combined CAT-M and NB-IoT modem transmits the measurement data safely and reliably out of deep shafts, boundary boxes or through closed lids.

QUICK & SIMPLE INSTALLATION

Install quickly and easily with the SmartEAR GO! app and be sure that everything works through direct feedback and network strength test function.

STATE-OF-THE-ART CLOUD PLATFORM

Smart algorithms make it possible to identify and localise leak positions.

SmartEAR – all special features at a glance



360° magnetic ring (optional accessory) for flexible positioning

POSEYEDON's smart algorithms for identification and localisation

Network strength test function in SmartEAR-GO! app integrated

Movement notification by internal motion sensor



Pre-installed, exchangeable Nano SIM card ex works
No additional efforts or SIM costs required

Size-optimised, robust and durable

IP 68 classification (even after battery change)

Anti-theft protection through magnet holding ring and stainless steel cable



Revised 32-bit measurement data analysis intelligence

Multiple measurement cycles within 24 hours

Recording audio files with 10 seconds length

Create preset or personalised measurement profiles in POSEYEDON



Unrivalled worldwide:
runtime up to 9 years* applying energy-optimised measuring mode

At least 5 years runtime by using permanent measurement default profile

Checking the battery status via SmartEAR-GO! app or POSEYEDON

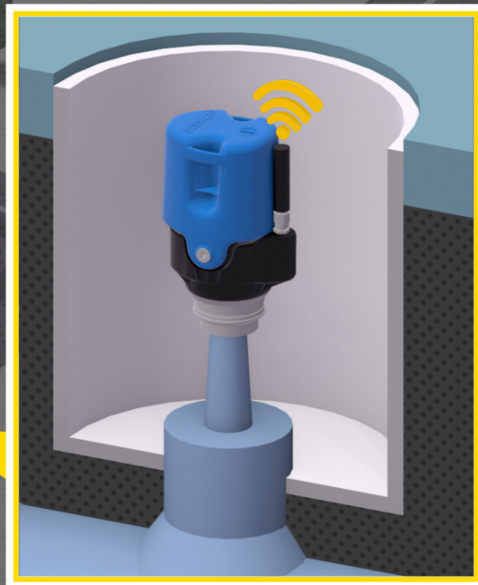
Quick and easy battery replacement on site

* Battery Life Disclaimer

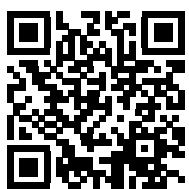
The specified battery life of up to 9 years is based on ideal conditions, which include, among other factors, an optimal measurement profile, suitable infrastructure, sufficient network coverage, professional installation, and, if necessary, the use of an antenna extension. Additional environmental and operational conditions may also influence battery life.

Please note that the actual battery life depends on various external factors and therefore cannot be guaranteed. Battery life is **not covered** by the product warranty.

LTE-M  **NB-IoT** 



**Video
Monitoring**



POSEYEDON cloud platform

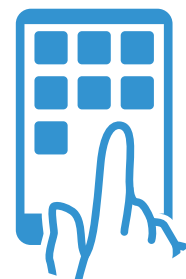


LTE-M /
NB-IoT



SmartEAR
logger network

LTE
(mobile
network)



SmartEAR-GO!
installation app

Data transmission

Configuration and programming
via Bluetooth®-LE

GET IT ON
Google Play

Download on the
App Store

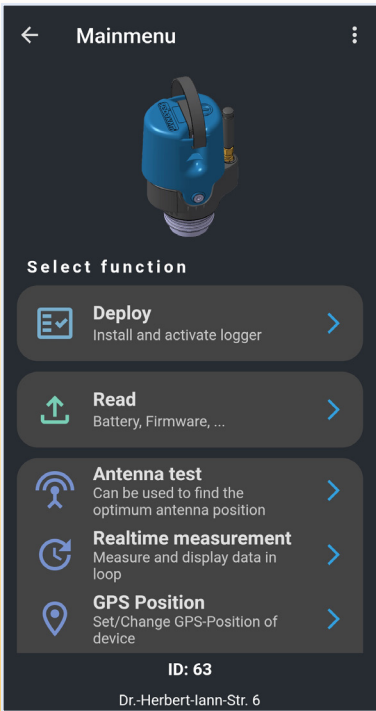
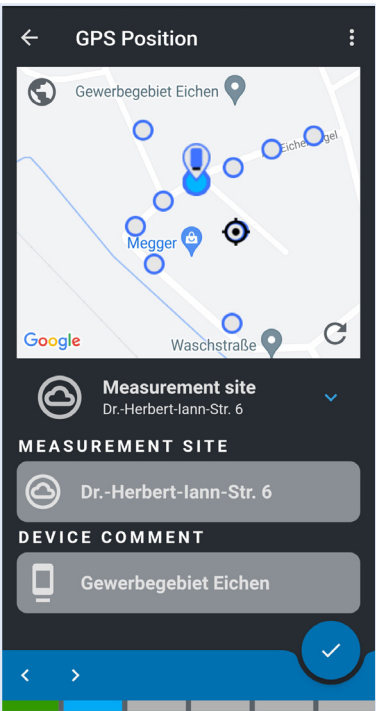
SmartEAR-GO! installation app

In just a few steps, guided by the app, you can install any SmartEAR in a very short time. All you need is the SmartEAR logger, a smartphone or tablet and the SmartEAR-GO! app optimised for Android and IOS.

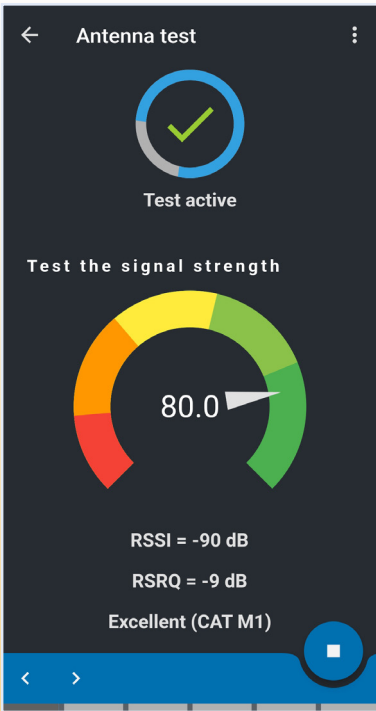
The app can be downloaded free of charge and, in addition to the installation routine, offers other helpful and clever functions, such as real-time measurement on site, manual upload of audio files and an integrated network strength test function.

Customised settings, like SmartEAR logger measurement or upload times are possible with the SmartEAR-GO! app. During installation, assign the SmartEAR logger either to an existing measuring point or quickly create a new one.

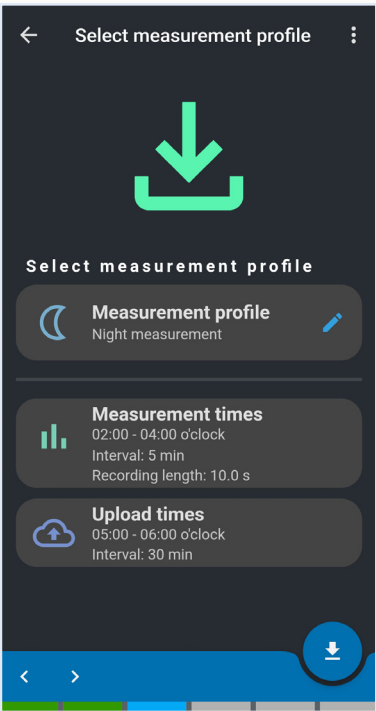
Get excited about our new combination of SmartEAR logger, SmartEAR-GO! app and POSEYEDON!



FUNCTIONAL VARIETY
Installation routine,
GPS administration,
real-time measurement,
update management, etc.



ANTENNA TEST
Direct feedback about
available network coverage
and signal reception strength

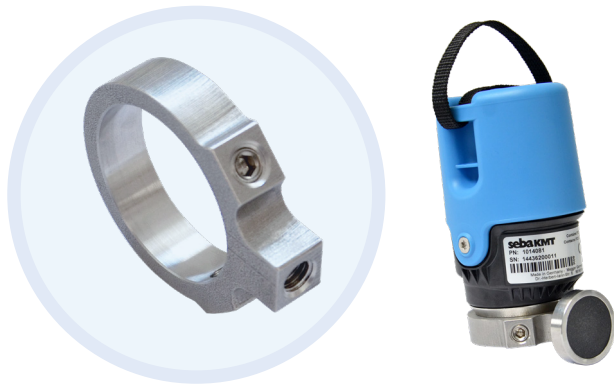


MEASUREMENT PROFILES
Use default measurement
profiles, adapt them or
configure your own in
POSEYEDON

Optional accessories

360° MAGNET HOLDING RING

Infinitely adjustable for maximum flexibility. No more problems to fix the logger individually inside the shaft. The magnet adapter itself is included as standard with every SmartEAR logger.



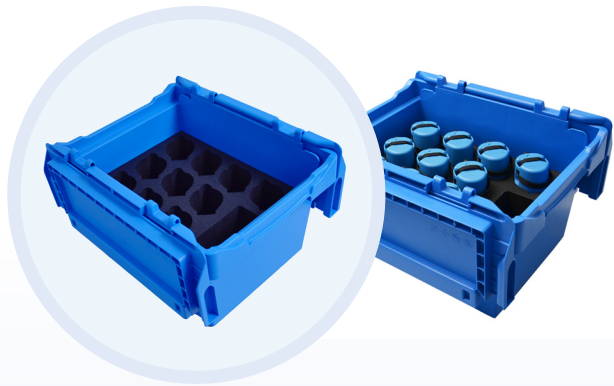
ANTI-THEFT STAINLESS STEEL CABLE

Secure your SmartEAR logger with the securing set, consisting of a magnet holding ring and matching steel cable. Fix the logger directly to the fitting, the pipe or screw it to the shaft wall.



TRANSPORT BOX

Space for 10 SmartEAR loggers and with additional extra compartment for antenna extensions, magnet holding rings or anti-theft sets.



ANTENNA EXTENSION

The rod antenna, like the magnet adapter, is included as standard with every SmartEAR logger. If deep shafts are given, use the antenna extension (300 cm).



THREAD ADAPTER

For direct connection to most hydrants or fitting housings, a thread adapter can be used as well.

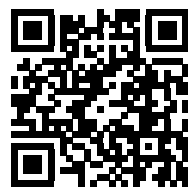
**Please contact us
for individual sizes
and combinations!**



SmartEAR



POSEYEDON



Demo access
Explanatory video
Brochure



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