SmartEAR

Technical data

Mechanics	
Protection class	IP 68
Operating temperature	-20° C ... +70° C
Storage temperature	-20° C ... +70° C
Display	Blue LED
Commissioning	Via smartphone app SmartEAR-GO!
Electronics	
Processor	32 bit
Anti-theft protection	Motion sensor
On/off	Magnetic switch
Power supply	
Power supply	Lithium battery 3.6 V / 13 Ah
Battery lifetime	Up to 9 years*
Battery change	Possible on site
Measuring modes	
Night measurement	Between 2 am - 4 am
Permanent measurement	Every 15 minutes / hourly upload
Customised measurement	Multiple measurement cycles, freely selectable upload times and lengths of audio files
Communication	
Long-range radio	NB-IoT, LTE-M (combi-modem)
Short-range radio	Bluetooth® Low Energy
Transmission protocol	MQTT
Housing	
Height	122 mm
Diameter	69 mm (79 mm max.)
Weight	450 g
Material	A2 stainless steel, PPH and PPS
Mounting options	Magnet, magnetic ring, threaded adapter
Anti-theft protection	Stainless steel cable

* 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.

Scope of delivery

Product	Order number
SmartEAR, NB-IoT noise logger without SIM card *)	1014081
SmartEAR, NB-IoT noise logger with SIM card (Telekom EU) *)	1014081-001
SmartEAR, NB-IoT noise logger with SIM card (Vodafone) *)	1014081-002
SmartEAR, NB-IoT noise logger with SIM card (O2 Telefonica) *)	1014081-003
SmartEAR, NB-IoT noise logger with SIM card (Telekom EU extended) *)	1014081-004
SmartEAR, NB-IoT noise logger with SIM card (Telekom North America) *)	1014081-005
SmartEAR, NB-IoT noise logger with SIM card (Telekom Global) *)	1014081-006
*) with loop, rod antenna, magnet adapter and battery	
Optional accessories and spare parts	
Transport box complete, SmartEAR	2014649
Secure wire rope complete for SmartEAR	2015049
Magnet holding ring set, SmartEAR	2015069
Magnet adapter 32/14 220N, Neodym Magnet	820015167
Rod antenna LTE NB-IoT SMA-M 698-960MHz	90035958
Antenna extension SMA 1,0m	2015409
Antenna extension SMA 0,5m	2015410
LOG GT-3-1-AV, antenna extension 3m	2011249
SAFT lithium battery 3,6 V / LSH-20 size D	820007318

Transport box with space for
10 SmartEAR loggers and
with extra compartment
Order no. 2014649

Magnet holding ring
(360° free adjustable)
Order no. 2015069

Secure wire rope with
magnet holding ring
Order no. 2015049

Magnet adapter
(automatically included with
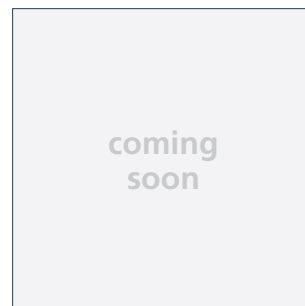every SmartEAR logger)
Order no. 820015167

Rod antenna
Order no. 90035958

Antenna extension (3m)
Order no. 2011249

SAFT lithium battery
Order no. 820007318

coming
soon

Thread adapter /
Composite hydrant lid

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.