



munisense

Water Level Loggers

The wireless water level meters send all measurement data via the mobile LTE-M network to the Munisense INSIGHTNOW™ platform.

The future-proof LTE-M technology ensures lower energy consumption as standard and has facilities for even more energy savings. The data connection via the LTE-M network is more reliable due to better network coverage through roaming.

Measurement data can be retrieved at any time via smartphone, tablet or web browser. Both the management per measuring point as well as the entire measuring network is simple using the powerful platform.

Future-proof and autonomous

The energy-efficient water level meters can operate for many months or years on the existing battery, depending on the number of measurements and the update frequency with the INSIGHTNOW™ platform.

The meters are suitable for networks where immediate response to measurement data is required or where it is used as a logger.

Remote management

The measurement and reporting intervals per meter can be set remotely in the INSIGHTNOW™ platform. All meters can be fully managed and updated remotely.

In addition to alarms for level changes, any malfunctions in the meters, e.g. battery or data transmission, are also reported in the INSIGHTNOW™ platform, so that they are immediately identified and resolved quickly.

Integrated GIS information

Map-driven user interface with GIS layers like buildings, subsurface, elevation map and legend. Fully integrated with dashboards for measuring network, location and measuring point and with graphs including ground level and manual measurements.

Easy installation

Years of operation on single battery

Sample interval from 5 sec. to 1 day

Adjustable Water Level Alarms

Automatically validated data

Integrated GIS information



Specifications water level loggers	LV8
Type measurement specifications	
Water pressure	
• Range	4, 10, 20 m H ₂ O (absolute)
• Resolution	0.01 % FS
• Precision	± 0.1 % FS (typical)
• Long term stability	± 0.02 % FS *
• Maximum pressure	3x range
Water temperature	
• Range	-20 - 50 °C
• Resolution	0.4 °C
• Precision	± 0.4 °C (max.)
• Accuracy, calibrated	0 °C (at 20°C)
Atmospheric pressure (requires optional valve)	
• Range	300 - 1100 hPa
• Resolution	0,01 hPa
• Precision	±0,4 hPa
• Accuracy, calibrated	±0,4 hPa
Timestamp accuracy	
	< 0.5 sec/day
Sampling, measurement interval	
	5 sec. - 24 hours
Logging capacity	
	25.000 measurements
Management information	
• Battery voltage	yes
• Radio quality (RSSI) in dBm	yes
Environmental conditions	
Temperature	-20 - 60 °C
Relative humidity	0 - 99 %
Ingress protected housing	IP68 **
Supplied sensor	
Cable length	5 m ***
Material	
• Cable material	PE-HD
• Sensor body	stainless steel 31 6L
• Sensor	stainless steel or AL ₂ O ₃ Ceramics
• Ingress protection	IP68
• Identification	unique, lasermarked stainless steel
• Suitable for drinkingwater	yes
Diameter	18 mm
Energy	
Battery (non rechargeable)	Li/SOCI2
Capacity	19 Ah
Replaceable battery	yes
Voltage	3,6 V
Operating time, depending on the quality of the connection, the selected measurement and reporting interval, approx.	
	7 years
Communication	
LTE-M and NB-IoT	both integrated
Antenna	integrated
OTA (Over The Air) updates	yes
Options	
Pressure valve (atmospheric pressure, relative sensor)	
External puck antenna	
Dimensions and weight	
Diameter body and cap	Ø 50 mm and Ø 62 mm
Length body incl. cap	180 mm
Weight body and sensor	500 grams

* After 30 days, over the rest of the entire lifespan - see EC EN 60770-1.

** More than 6 weeks under max. 60 cm of water, with the seal intact.

*** Other cable lengths upon request: 10, 15, 20 m or another length.

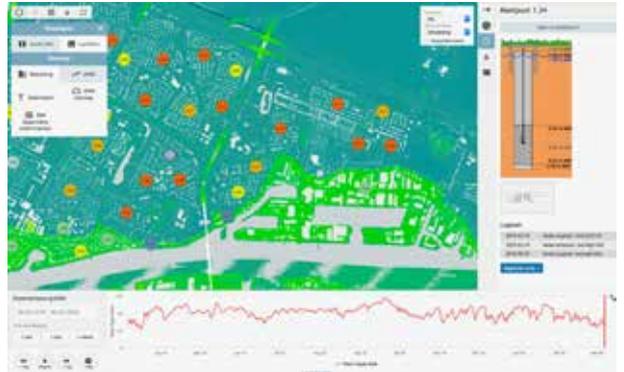
Recycling e-waste

Of course you can deliver or send us your old Munisense devices. We then ensure that they are included in our recycling process.

v 3.5.0

Everything at a glance

The portal can interpolate water levels or dewatering depth on the map. Even the values from the graph can immediately be visualized on the map in time.



Above: **example of a user portal with at a glance**

- metadata of the selected measurement point
- time series of dewatering depth of the measurement point
- map with color coding per measurement point and AHN2 height map



LV water level meter

About Munisense

Munisense develops, produces, supplies and manages innovative measurement solutions for businesses and governments. Solutions that give stakeholders direct online insight into noise, water quality, water levels and air quality. The information is online available at any time for visualization, analysis or periodic reports. This way managers and policymakers can measure in real time; remotely, reliable and smarter.

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INSIGHTNOW™