



# munisense

## Wireless Water Level Loggers

The wireless water level loggers are small, rapidly deployable, energy-efficient telemetric loggers for monitoring wells, that store their measurement data in the Munisense INSIGHTNOW™ cloud platform. The water level data can be accessed via smartphone, tablet or web browser, tailored to the role of the user. Managing an entire water monitoring network as well as individual water level loggers becomes much easier.

### Self-sufficient and wireless

The energy-efficient loggers can work for weeks, months or even years on their internal battery, depending on the number of measurements and registrations in the INSIGHTNOW™ platform.

The loggers communicate with the INSIGHTNOW™ platform via GPR or NB-IoT and/or ZigBee (LoRa available upon request). The meters are suitable for networks that may need immediate action on measurements or where loggers are used for short periods of time.

For long term measurements and measuring in remote locations the communication intervals can be set to day(s) to increase battery life.

### Remote configuration

Managing a water monitoring network via our INSIGHTNOW™ platform is simple. Measurement and reporting intervals can be remotely adjusted per logger.

In addition to alarms of water level changes, the failure of a meter, battery or data transmission will be reported by the INSIGHTNOW™ platform immediately upon determination. This enables issues to be solved quickly.

### Easy installation

### Years of operation on single battery

### Sample interval from seconds to hours

### Adjustable Water Level Alarms

### Instant Wireless Data Communication

### Automatically validated data



Specifications water level loggers	LV5 GPRS and LV6 NB-IoT
<b>Type measurement specifications</b>	
Water pressure	
• Range	4, 10, 20, 50m H <sub>2</sub> O (abs) *
• Accuracy at 25°C	0,50% **
• Resolution	0.5 hPa
• Drift	±0.25%F
• Maximum pressure	3x range
Temperature	
• Range	-15 - 50°C
• Accuracy at 4°C	± 3°C **
Atmospheric pressure	
• Range	300 - 1100 hPa
• Accuracy at 25°C	± 0,12 hPa
Battery voltage	yes
Radio quality (RSSI) in dBm	yes
Sampling, measurement interval	1 sec. - 24 hours
Logging capacity	250.000
Time stamp accuracy	max. 0.8 sec./day
<b>Environmental conditions</b>	
Temperature	-20 - 60°C
Relative humidity	20 - 99%
Ingress protected housing	IP67
Pressure valve	optional
<b>Sensor ***</b>	
Cable length	5 m ****
Material	
• Suitable for drinking water	yes
• Cable material	PE-HD
• Sensor body	RVS 316L
• Sensor	ceramic Al <sub>2</sub> O <sub>3</sub>
• Ingress protected housing	IP68
• Identification	Unique, lasermarked on RVS
Diameter	25 mm (standard) or 18,5 mm
<b>Energy</b>	
Battery (non rechargeable)	Li/SOCI2
Capacity	14 Ah
Replaceable	yes
Voltage	3,7 V
Operating time, depending on the quality of the connection and the selected measurement and reporting interval, approx.	3 years LV5 / 5 years LV6
<b>Options</b>	
GPRS integrated	LV5
NB-IoT integrated	LV6
LoRa integrated	upon request
ZigBee (logger)	LV5, LV6
Antenna	integrated
<b>Dimensions and weight</b>	
Diameter body and cap	Ø 50 mm & Ø 62 mm
Length body incl. cap	180 mm
Weight body and sensor	500 grams



LV water level meters;  
available for use with 1 or 2 sensors

Upon request:

\* Other ranges or relative sensors upon request.

\*\* Higher accuracy obtainable with calibration

\*\*\* HUBA712 (standard) or HUBA713. Other vendors upon request.

\*\*\*\* Other cable lengths upon request.

## 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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**munisense**

**INSIGHTNOW™**