



munisense

Wireless Water Level Loggers

The Munisense LV5 wireless water level loggers are small, rapidly deployable, energy-efficient telemetric loggers for monitoring wells, and stores their measurement data in our INSIGHTNOW™ cloud platform.

The data can be accessed via smartphone, tablet or web browser, tailored to the role of the user. Using INSIGHTNOW™ makes managing an entire water monitoring network as well as individual water level loggers 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 our INSIGHTNOW™ platform via GPRS, LoRa, NB-IoT and/or ZigBee. 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	LV5GPRS, LV5LoRa LV5NB-IoT
Type measurement specifications	
Water pressure	
• Range	4, 10, 20, 50m H ₂ 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
Environmental conditions	
Temperature	-20 - 60°C
Relative humidity	20 - 99%
Ingress protected housing	IP67
Pressure valve	optional
Sensor ***	
Diameter	25 mm (standard) or 18,5 mm
Cable length	5 m ****
Material	
• Suitable for drinking water	yes
• Cable material	PE-HD
• Sensor body	RVS 316L
• Sensor	ceramic AL ₂ O ₃
• Ingress protected housing	IP68
• Identification	Unique, lasermarked on RVS
Energy	
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:	
Model LV5GPRS	approx. 3 years
Options	
GPRS integrated	LV5G
LoRa integrated	LV5L
NB-IoT integrated	LV5N
ZigBee (logger)	LV5G, LV5L, LV5N
Antenna	integrated
Dimensions and weight	
Diameter body and cap	Ø 50 mm & Ø 62 mm
Length body incl. cap	180 mm
Weight body and sensor	500 grams

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.



Model LV5 series

About Munisense

Munisense develops, sells and manages highly innovative real-time and online measurement and control solutions for business and government. Solutions that provide immediate insight in noise, vibrations, water levels, energy use, lighting, water and air quality and that allow effective control over lighting levels, ventilation, and pump activity.

Our INSIGHTNOW™ meters are connected to our INSIGHTNOW™ cloud platform where the data is stored in real-time for analysis, visualisation and reporting. The information from the platform can be viewed in a range of specific visualisations any time, any where through a web browser or using our phone or tablet apps. Our applications are developed in close cooperation with universities, governments, partners and customers.

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INSIGHTNOW™