



munisense

Water quality meters

Long term and continuous measurements

Our QU2 water meters are small, quick-to-install, wireless, energy-efficient meters that store the measurement data online in the Munisense INSIGHTNOW™ platform. The water quality can be viewed and monitored via a smartphone, tablet or web browser.

Water quality

The water meters can be equipped with one or two sensors from AquaLabo for measuring conductivity, oxygen, turbidity or pH value in combination with temperature.

Self-sufficient and wireless

The energy-efficient meters work for weeks, months or years on the enclosed battery depending on the number of measurements and communication with the INSIGHTNOW™ platform.

The meters communicate with the INSIGHTNOW™ platform via GPRS, LoRa or NB-IOT and/or ZigBee. The water quality meters can be seamlessly combined with our water level meters and are suitable for networks where you have to react directly to measurement data or where the meters are periodically used as a logger.

Remote management

Integral management of a water network is easy via the INSIGHTNOW™ platform. The meters can be managed remotely. Measuring and reporting intervals can be remotely set per meter. And in addition to alarms, any faults of the meter, battery or data transmission are also reported in the online INSIGHTNOW™ platform and are signaled and can be solved quickly.

Quick and easy installation

Operates for years on a single battery

Measurement interval from 1 second to 1 day

Alarming for change

Immediate wireless communication

Prolonged continuous measurement



Specifications water quality sensors

| Conductivity | |
|-----------------------|--------------------------|
| Measurement principle | sensor with 4 electrodes |
| • Sensor diameter | 27 mm |
| • Range (in 4 ranges) | 0,0 to 200,0 mS/cm |
| • Accuracy | +/- 1% of the range |
| • Range salinity | 5 - 60 g/Kg |
| • Range TDS-KCl | 0-133 000 ppm |

| Oxygen | |
|-----------------------|---------------------------------|
| Measurement principle | optical luminescence technology |
| • Sensor diameter | 25 mm |
| • Range | 0,00 to 20,00 mg/l (ppm of %) |
| • Accuracy | +/- 0,1 mg/l |

| Turbidity | |
|-----------------------|----------------------------|
| Measurement principle | IR 90° technology |
| • Sensor diameter | 27 mm |
| • Range | 0 to 4000 NTU |
| • Accuracy | < 5% of the measured value |

| pH value | |
|--------------------------|----------------------------------|
| Measurement principle pH | Combined electrode: pH & ref |
| • Sensor diameter | 27 mm |
| • Range pH | 0-14 pH |
| • Accuracy | +/- 0,1 pH |
| Redox potential | Combined electrode: Redox & ref. |
| • Range | - 100 to + 1000 mV |
| • Accuracy | +/- 2 mV |

| Specifications for all sensors | |
|--------------------------------|-------------------------------|
| Temperature | |
| • Range | 0 to +50°C |
| • Accuracy | +/- 0,5°C |
| Cable length sensor | 3 meters (7 or 15 m optional) |

Specifications water quality meter model QU2

| | |
|-----------------------------------|----------------|
| Temperature measurements | |
| • Range | -20 to +60°C |
| • Accuracy | +/- 0,5°C |
| Atmospheric pressure measurements | |
| • Range | 300 - 1100 hPa |
| • Accuracy at 25°C | ±0,12 hPa |
| Humidity measurements | |
| • Range | 0-99% |
| • Accuracy | +/- 3% |

| Technical specifications | |
|--------------------------------|---------------------|
| GPRS integrated | QU2G |
| Battery voltage | in portal |
| Radio quality (RSSI) in dBm | in portal |
| Sampling, measurement interval | 1 sec. - 24 hrs |
| Logging capacity | 250.000 samples |
| Accuracy time stamp | max 0.8 sec per day |

| Environmental conditions | |
|-----------------------------|------------|
| Temperature | -20 - 60°C |
| Humidity | 10 - 99% |
| Housing, Ingress protection | IP65 |

| Energy | |
|--|-------------|
| Battery (not re-chargeable) | Li/SOCI2 |
| Capacity | 14 Ah |
| To be replaced/interchangeable | yes |
| Voltage | 3,7 V |
| Service life, depending on the quality of the connection and the chosen measurement and reporting interval | ca. 3 years |

| Dimensions and weight | |
|--------------------------|---------------------|
| Diameter body and cap | Ø 50 mm and Ø 62 mm |
| Length incl. cap | 200 mm |
| Weight body and 1 sensor | 600 grams |



Model QU2 with water quality sensor

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 allows 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.

munisense
INSIGHTNOW™

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