

WaterStation Mini

Smart, Compact & Reliable Water Monitoring

Description

WaterStation Mini is a fully autonomous monitoring station designed for continuous water quality measurement in rivers, lakes, and other inland water bodies. Equipped with advanced sensors and remote data transmission, it enables real-time monitoring of key physicochemical parameters of water and air, ensuring reliability and precision year-round.



Meteorological measurements (basic)

AQ Air Quality (eCO₂*, TVOC)**
 Measurement range: 0 - 65000 TVOC, 400 - 65000 eCO₂ ppb
 Accuracy: ±5% actual value
 *carbon dioxide equivalent
 **total concentration of volatile organic compounds

°C↑ Air Temperature
 Measurement range: -10°C to +80°C
 Dokładność pomiaru : ±0.5°C

RH Air Humidity
 Measurement range: 10%RH to 80%RH
 Accuracy: ±3% RH

hPa Air Pressure
 Measurement range: 300 - 1100 hPa
 Accuracy: ±1 hPa

Physicochemical measurements (basic)

°C↓ Water Temperature
 Measurement range: -10°C to +85°C
 Accuracy: ±0.5°C

μS Conductivity
 Measurement range: 0 - 20 000 μS/cm
 Accuracy: ±5% actual value

pH pH
 Detection range: 0 - 14 pH
 Accuracy: ±0.1 pH

O₂ Dissolved Oxygen
 Measurement range: 0 - 20 mg/L
 Accuracy: ±5% actual value

ORP ORP Redox (Oxidation-Reduction Potential)
 Measurement range: -2000 - 2000 mV
 Accuracy: ± 10 mV

↓m Depth
 Measurement range: 5 - 600 cm
 Accuracy: ±1% actual value

+ And more
 Upgrade to include more sensors possible

Integration with WaterSense systems

WaterCloud

Full integration with WaterCloud – a central operations hub that enables automated analysis, real-time monitoring and remote system management, as well as WaterStation control, alert configuration and data-driven decision-making.

[Learn More ↗](#)



WaterForecast

Full integration with WaterForecast – the world's first predictive AI model for water quality monitoring. WaterForecast analyzes environmental data in real time, predicting changes before they happen, enabling better decisions, disaster prevention and assessment of remediation proactive actions, supporting sustainable water management.

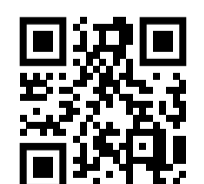
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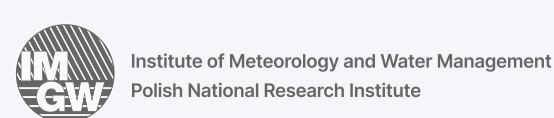
WaterMap

Full integration with WaterMap – an open platform for real-time water quality monitoring desired to be use by everyone. WaterStation operators can share their data with one click on WaterCloud, highlighting their commitment to environmental protection, and add logos and information to support clean water initiatives.

[Learn More ↗](#)



Developed by:



Co-financed by:



WaterStation Mini

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Technical Specification

Energy

Autonomy	365 days* *depending on the measurement frequency
Power Type	Battery LiPo 20 000 mAh

Telemetry

Communication	4G LTE + GPS
Measurement frequency	5 min - 72h (to be set)

Lighting (optional)

Color	White / Green / Red
Light mode	Steady light / Flashing
Visibility	3km + (1,85 mi +)

Security & Guardancy

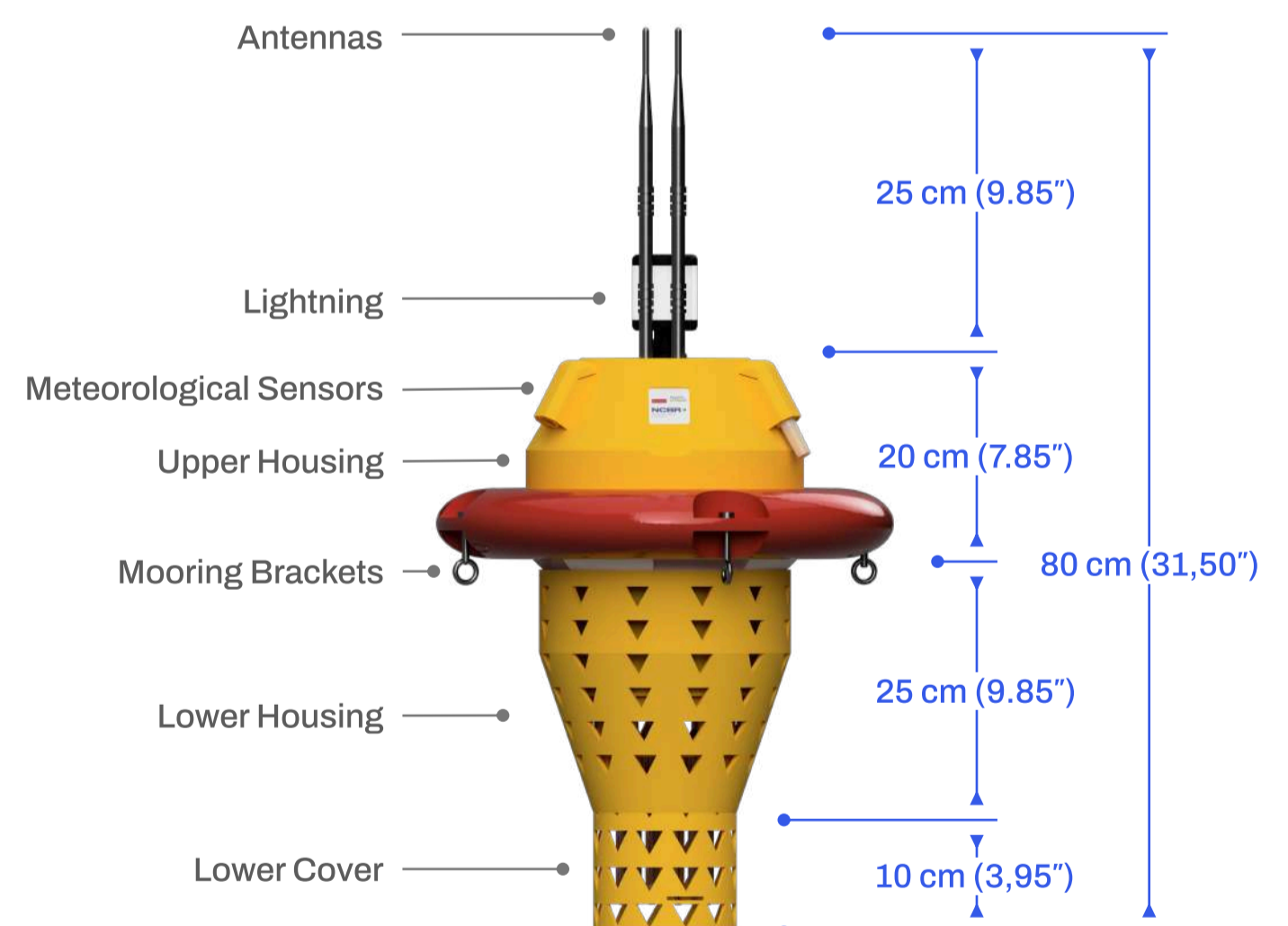
Movement Sensor	IMU (9Dof)
Sound Alarm (Siren)	130 dB
Systems monitoring	Temperature, Humidity, Flooding

Dimensions

Overall outside diameter	∅ 42 cm (16,50")
Upper housing diameter	∅ 26 cm (10.25")
Bottom housing diameter	∅ 22 cm (8.65")
Bottom housing diameter	∅ 15 cm (5.90")
Total height	80 cm (31.50")
Weight	5 kg (11 lbs)
Buoyancy (net)	12.5 kg (27.55 lbs)
Outer hull material	Polyethylene (PE) with polyurethane foam (PU) filling
Inner hull material	Acrylonitrile styrene acrylic (ASA)
Anchorage attachment points	4x Stainless steel eyelet

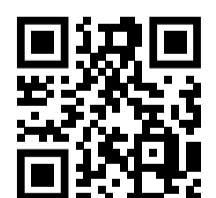
Parts List

WSM-42	WaterStation Mini 42 cm platform with housing
WDLM-01	WDL Mini 4G LTE + GPS Data Logger
WBPM-01	WBP Mini LiPo 20,000 mAh Battery Pack
WSL-01	WSL Solar Spotlight
WSBM-01	WSB Mini sensor holder with lower housing
WSTM-01	WST Mini Top Protective Case
WSENS-BASE	Basic sensor package



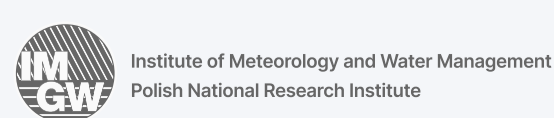
 WaterSense

[Learn More](#) ↗



Phone	+48 796 580 533
Email	filip.budny@watersense.pl
Address	ul. Syta 87H, 02-987 Warszawa
Working hours	Mon-Fri, 8:00–16:00 (GMT+1)

Developed by:



Co-financed by:

