



# WATER MAPPERS

MAPPING THE WORLD'S GROUNDWATER RESOURCES

## Summary

Our sensors play an essential role in a durable and sustainable approach of water management. A sensor will be placed in a standpipe or well and will monitor the water level and temperature in real time. The collected data of the water level sensor will be shown in a user friendly dashboard, where you can see the current and past trends of the groundwater. Replenishment of the groundwater after rain or after pumping shows the resilience of the aquifer and therefore can support a sustainable use of groundwater. Long term data series give the best indications of the “health” of the aquifer. When the necessity of measuring a specific stand pipe or well is gone, the sensor can easily be moved to a new location.

## Connectivity

|                   |  |
|-------------------|--|
| 2G                | 850/900/1800/1900 MHz  |
| 4G LTE-M / NB-IoT | Modem works on all major world-wide LTE-M- en NB-IoT-brands.<br><br>Compatible LTE-bands:<br>1*, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 26*, 28<br>(* roaming bands) |
| Simcart size      | Internal Micro 3FF Simcard   |

## Power

|                       |          |
|-----------------------|----------|
| Replaceable batteries | 3x AA    |
| Battery type          | Lithium  |
| Battery life          | ~ 1 jaar |

## Housing

|                              |  |
|------------------------------|--|
| Dimensions                   | 75mm in diameter en 130mm height       |
| Weight (including batteries) | 487 g                                  |
| Material                     | Polyvinylchloride                      |
| IP-code                      | IP68                                   |
| Temperature                  | -20 °C to 60 °C                        |
| Humidity                     | 0 to 100 %                             |
| Installation                 | Just below surface or within standpipe |

## Location

|                        |                   |
|------------------------|-------------------|
| Manual                 | By using software |
| GPS antenna (optional) | Internally        |

## Security

|                                      |                    |
|--------------------------------------|--------------------|
| Data security (Mobile - 2G/4G LTE-M) | AES-256 encryption |
|--------------------------------------|--------------------|

## Waterlevelsensor

|                        |   |
|------------------------|---|
| Range                  | 4, 10, 20 m H2O (abs.)                      |
| Accuracy               | 0.05 % FS (typ.)                            |
| Resolution             | 0.01 % FS                                   |
| Maximal pressure       | 3 times range                               |
| Sampling rate          | 5 second to 24 hours                        |
| Temperature range      | -20 - 50 °C                                 |
| Temperature resolution | 0.4 °C                                      |
| Diameter               | 18.5 mm                                     |
| Cable length           | 500 cm, bigger lengths available on request |
| Sensor life            | > 3 year                                    |

## Warranty

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Sensor will be replaced free of cost (when installed and handled correctly)

## Contact

Website

[www.watermappers.com](http://www.watermappers.com)