

# Device Specifications

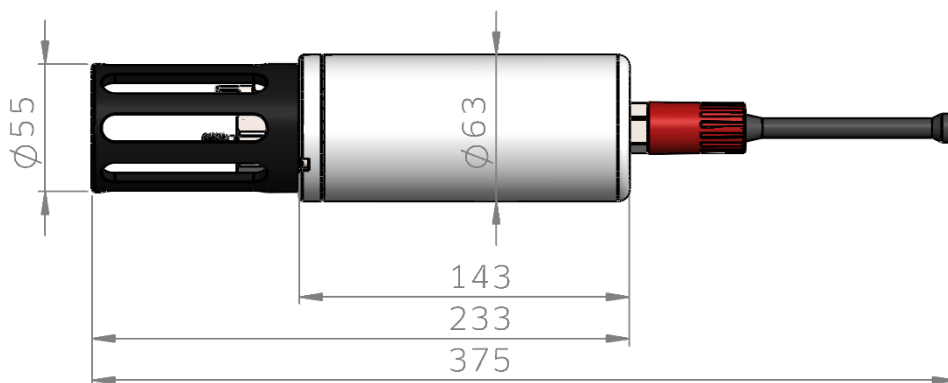
## AquapHOx Logger

For sensor specifications and response times, please refer to the webpages of the different sensor types.

| Specifications                                                                 |                                                                                                               |                                                                                                               |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Item No.                                                                       | APHOX-LX                                                                                                      | APHOX-L-PH / APHOX-L-O <sub>2</sub>                                                                           |
| Dimensions                                                                     | 63 x 300 mm                                                                                                   | 63 x 300 mm                                                                                                   |
| Weight in air                                                                  | 1.35 kg                                                                                                       | 0.450 kg                                                                                                      |
| Housing Material                                                               | Titanium                                                                                                      | Polyoxymethylene (POM)                                                                                        |
| Max. hydrostatic pressure                                                      | 400 bar (4000m)                                                                                               | 10 bar (100m)                                                                                                 |
| Supported analytes                                                             | optical pH and O <sub>2</sub>                                                                                 | APHOX-L-PH: pH and optical temperature<br><br>APHOX-L-O <sub>2</sub> : O <sub>2</sub> and optical temperature |
| Optical sensor connector                                                       | PyroScience underwater connector (-SUB)                                                                       |                                                                                                               |
| Optical sensor port                                                            | 1                                                                                                             |                                                                                                               |
| Compatible optical sensors                                                     | Portfolio of optical sensors with underwater connector (-SUB) from PyroScience                                |                                                                                                               |
| External temperature sensor<br>Resolution<br>Accuracy<br>Typical response time | NTC thermistor for automatic temperature compensation<br>0.005°C<br>± 0.05°C (typ.), ± 0.15°C (max.)<br>0.5 s |                                                                                                               |
| Software                                                                       | Software Pyro Workbench or Pyro Developer Tool                                                                |                                                                                                               |
| Computer interface                                                             | USB 2.0 (Ensure electromagnetically controlled environment during connection)                                 |                                                                                                               |
| Electrical Connector                                                           | MCBH6M                                                                                                        |                                                                                                               |
| Charging                                                                       | via USB                                                                                                       |                                                                                                               |
| Battery                                                                        | Rechargeable LiPo battery, 1250 mAh                                                                           |                                                                                                               |
| Data storage                                                                   | 4 GB (ca. 40 million data points)                                                                             |                                                                                                               |
| Max. sample rate                                                               | 1 s                                                                                                           |                                                                                                               |

|                                                          |                                                                                                                                                                   |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Typical stand-alone logging time (fully charged battery) | ca. 1 week for 1s logging interval<br>ca. 2 months for 10s logging interval<br>ca. 6 months for 1 min logging interval<br>ca. 1 year for >10 min logging interval |
| Operating / storage temperature                          | -10°C – 60 °C Storage<br>-5°C - 40°C Operating                                                                                                                    |
| Oxygen sensors                                           | Refer to the separately available specifications for the connected oxygen sensor                                                                                  |
| pH sensors                                               | Refer to the separately available specifications for the connected pH sensor                                                                                      |
| Optical temperature sensors                              | Refer to the separately available specifications for the connected optical temperature sensor                                                                     |

\*Please note, that the optical sensors have a different temperature range



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