

Highest standards for calibration

After production every probe is calibrated as a system. We keep lifetime files for every probe built, and they can be shared with customers on demand.

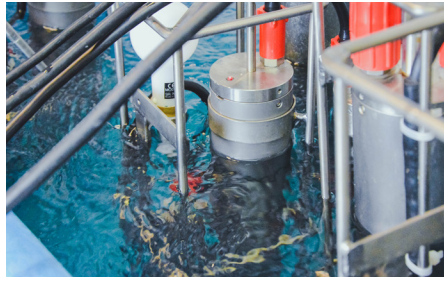
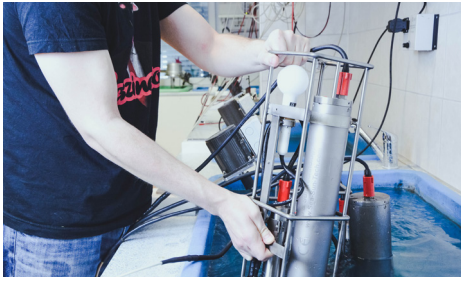
If needed, we recalibrate, repair, and retrofit our customer's probes at our headquarters. First, we examine the probes, based on which the customers decide what should be done.

A recalibration is done in our calibration lab usually within 2 weeks. In urgent cases it can be done within 3 days.

We also offer probes for hire, for a weekly fee.

We recommend having each probe serviced once a year.





Sensor calibration:

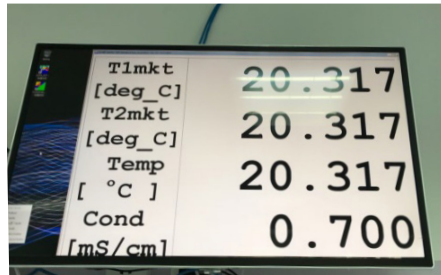
Temperature

To calibrate temperature sensors we use four reference thermometers from different manufacturers, especially millikelvin thermometers.

You can chose between two temperature ranges:

-2 °C – +36 °C

-2 °C – +60 °C



PT-100 24 Bit Temperature sensor

Conductivity

The water in our conductivity calibration basins is absolutely free from air bubbles.

Our reference electrodes are permanently monitored and tested against standard seawater with two Guildline Salinometers and a density meter.

Calibrating conductivity we use 13 to 21 measurement points in the ranges:

0 to 75 mS/cm

0 to 300 mS/cm



Salinometer: Guildline Portasal



Conductivity sensor

Depth / Pressure

To calibrate the pressure sensor, we use a deadweight tester for up to 10.000 dbar.

Calibrating temperature we use 11 measurement points.

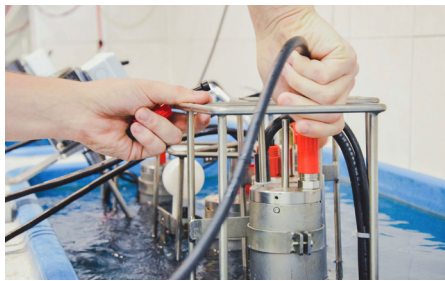
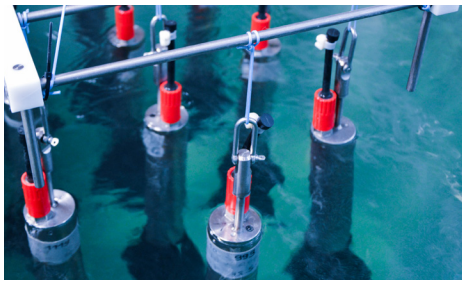
Every pressure sensors is calibrated as a system minimizing electrical and physical influences.



Pressure gauge 0 -10.000 dbar



Pressure sensor



pH / Redox (standard or pH resistant)

The pH and redox sensors are calibrated to the highest standard using high-quality buffer solutions.

Ranges of the pH sensor:

4 – 10 pH

0 – 14 pH



Buffer Solution for pH / Redox



pH sensor

O₂ / Oxygen

Sea & Sun Technology has developed a practical method to calibrate an oxygen sensor, providing the same results like the Winkler Titration (iodometric titration).



Winkler Titration



Optical Oxygen sensor



Sea & Sun
Technology



Sea & Sun Technology GmbH

Sea & Sun Technology GmbH offers system solutions and is specialized in the development, production, and distribution of high-tech underwater measurement systems.

We are also a trusted partner in numerous research & development projects working with renowned institutions, universities, as well as innovative companies. With more than 20 years' experience and being awarded „TOP 100 Innovator 2019“, we offer the best quality and solutions.



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