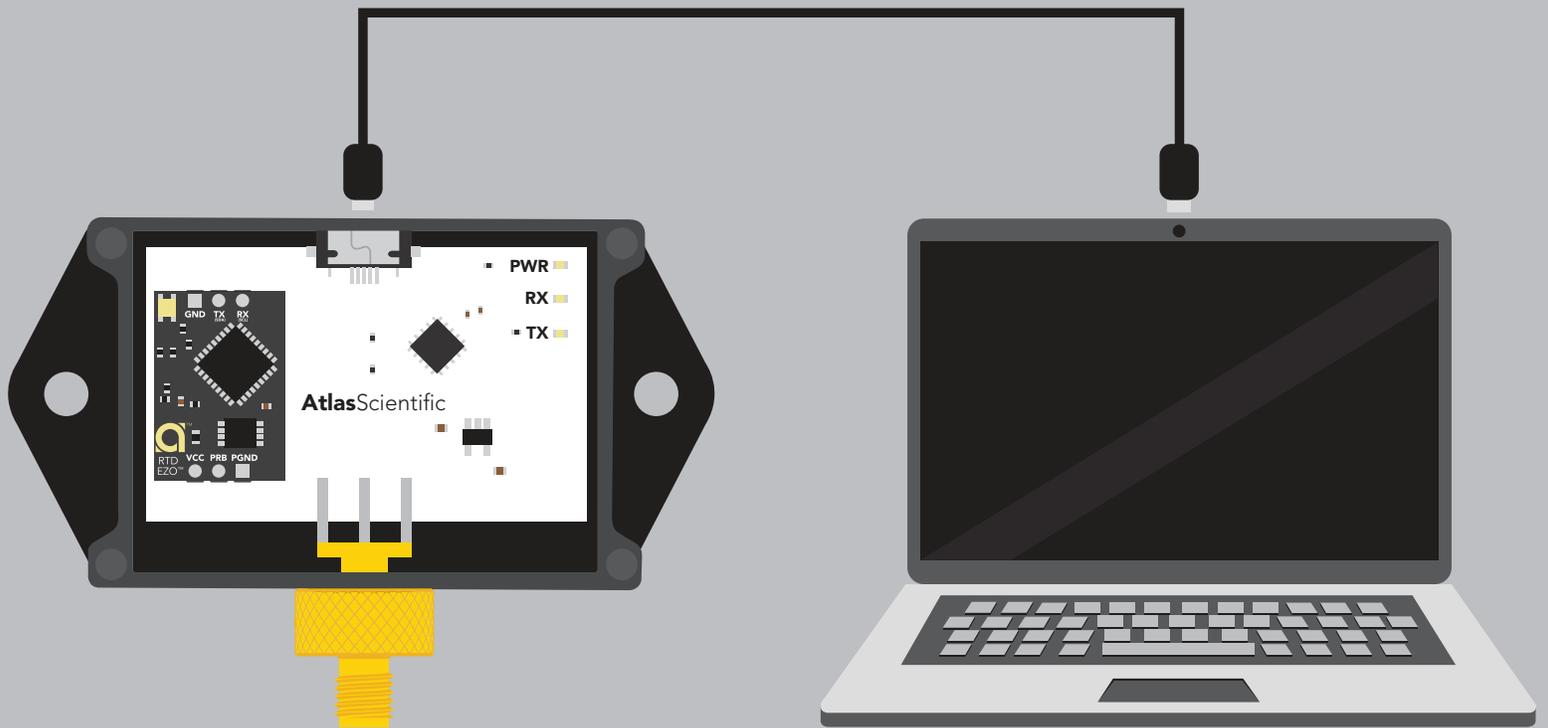


EZO Complete-TMPTM

USB Temperature meter

Users Guide



Reads	Temperature	Temp reading time	1 reading /sec
Range	-126.000 °C to 1254 °C	Supported probes	Any type & brand PT-100 or PT-1000
Accuracy	+/- (0.1 + 0.0017 x °C)	Calibration	Single point



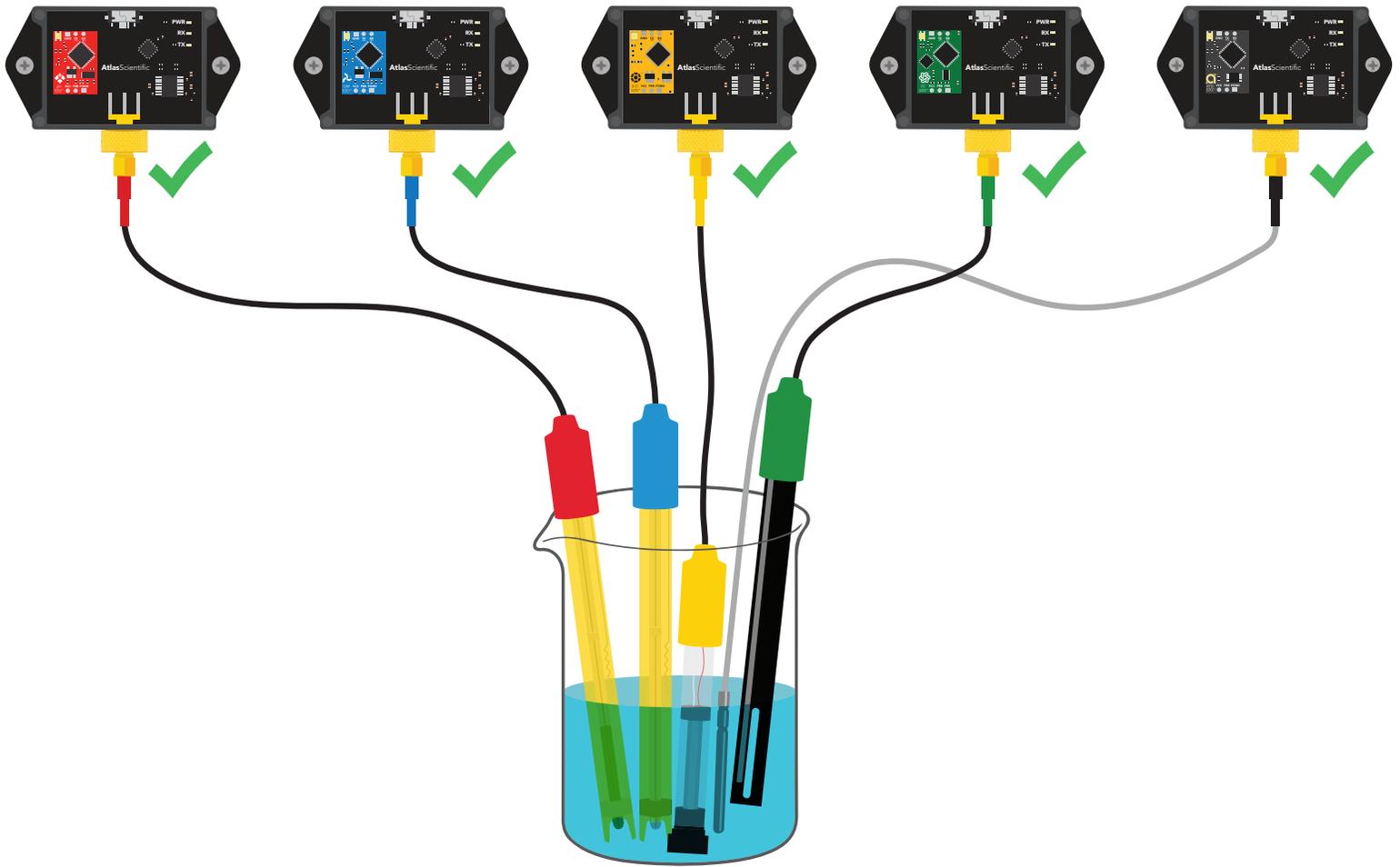
Written by Jordan Press
Designed by Noah Press

PATENT PROTECTED

This is an evolving document, check back for updates.

Interference free

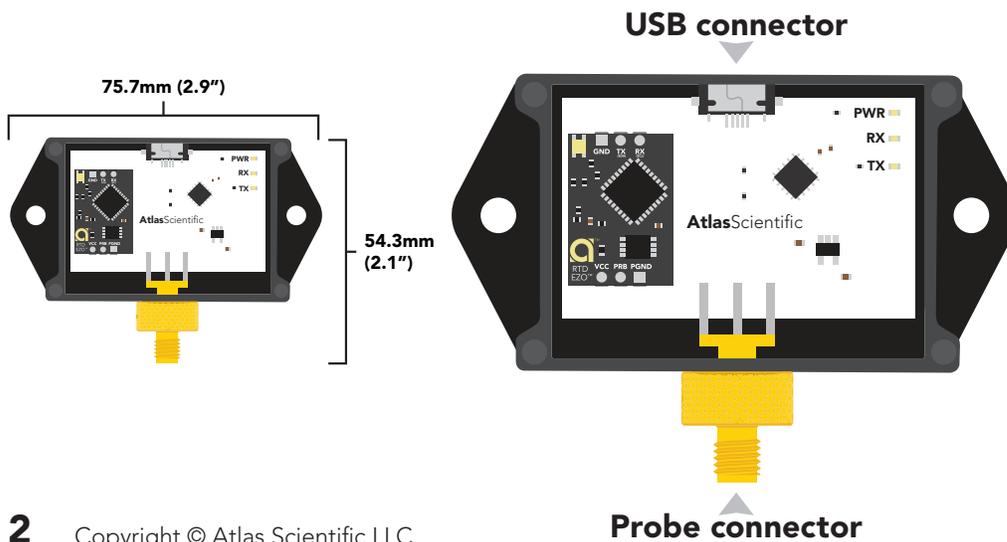
The EZO complete readings are unaffected by other sensors in the same water.



Ingress protection – IP62

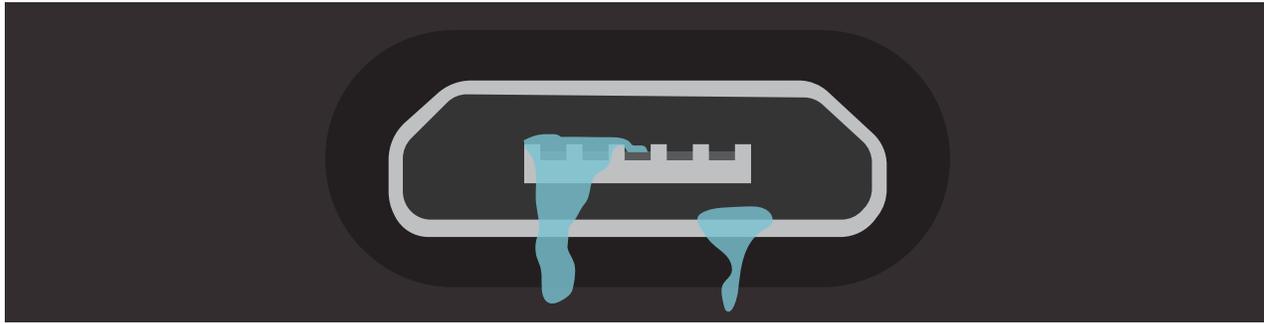
The EZO Complete-TMP™ is dust proof and resistant to splashing water.

Two areas of concern are the *USB connector* and the *probe connector*.

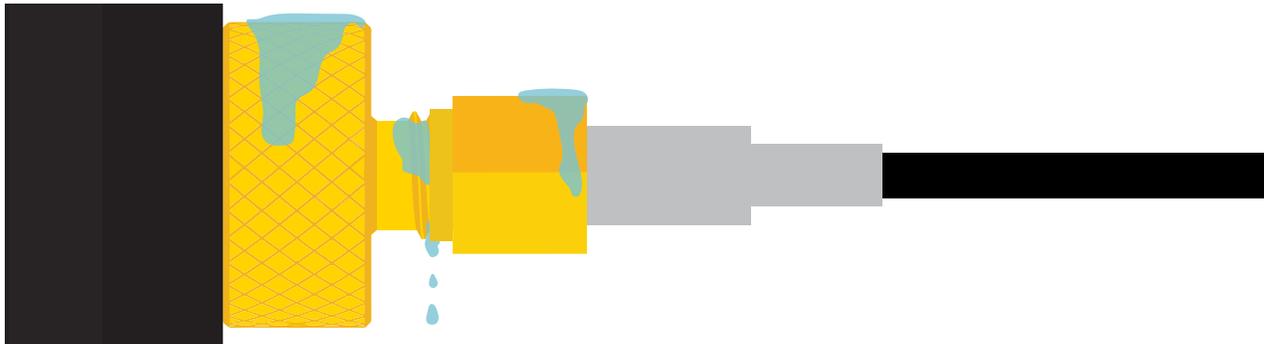


Ingress protection – IP62

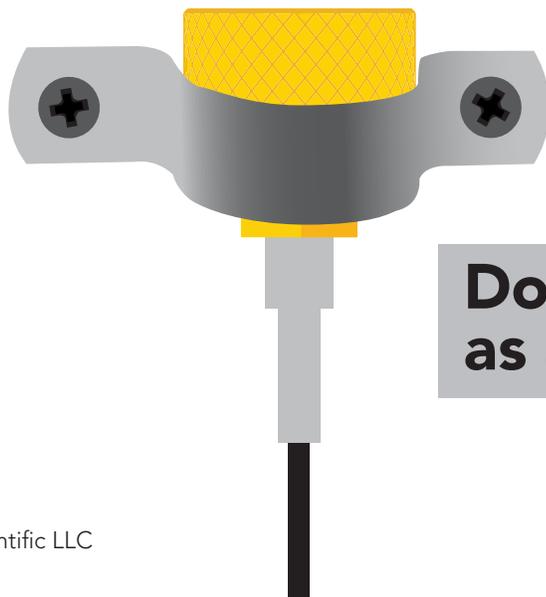
An electrical short can occur if water enters the USB connector. A USB short could permanently damage the EZO-Complete. A USB short is not covered under warranty.



A connector short can occur if water enters the SMA connector. A connector short will cause the temperature readings to pin to -1023, or the probe will respond slowly to changes in temperature. A connector short is reversible and will not damage the EZO-Complete. However, frequent shorts will eventually damage the temperature probe.

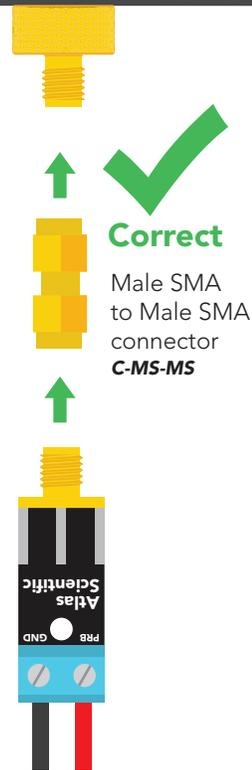
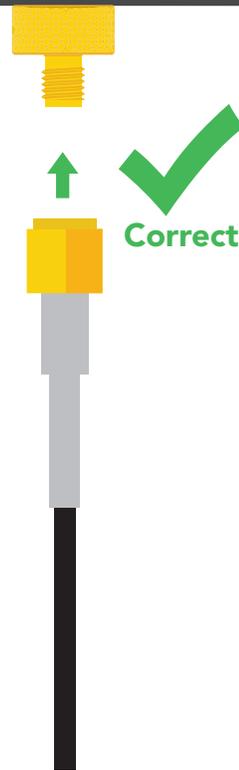
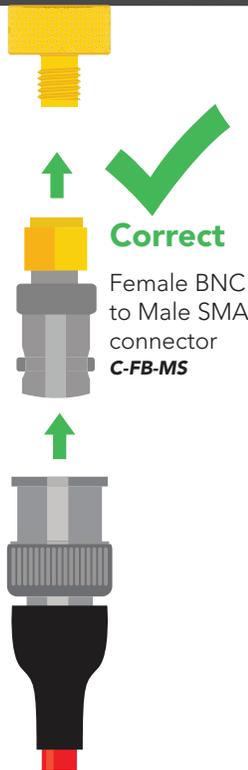
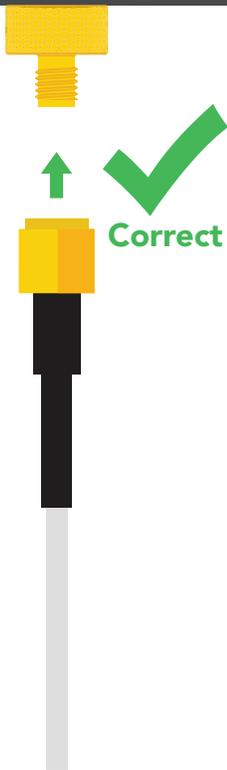


The SMA connector is part of your probe; Nothing should be in contact with this part.



**Do not use this
as a mounting point!**

Setup



Temperature probe with SMA Connector

Temperature probe with BNC Connector

Micro Temperature probe with SMA Connector

Tinned leads with the SMA to terminal block connector

[Click here to download](#)

AtlasDesktopTM 2.0

Monitoring Software

Setup

Once you have installed the AtlasDesktop monitoring software, you can begin monitoring and logging your readings.



✓ **Setup complete**

Best practices for calibration

Always watch the readings throughout the calibration process.
Issue calibration commands once the readings have stabilized.

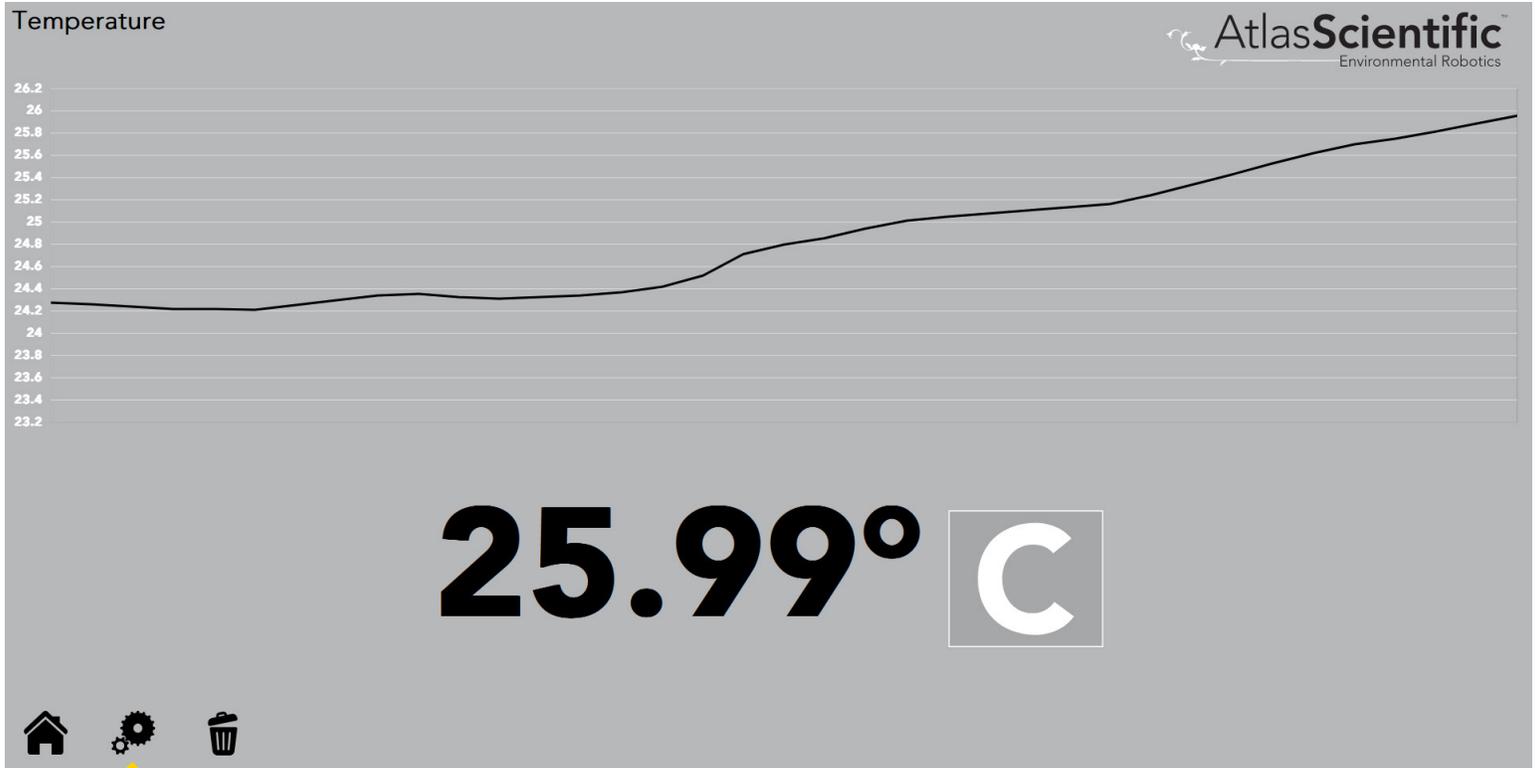


⚠ Never do a blind calibration! ⚠

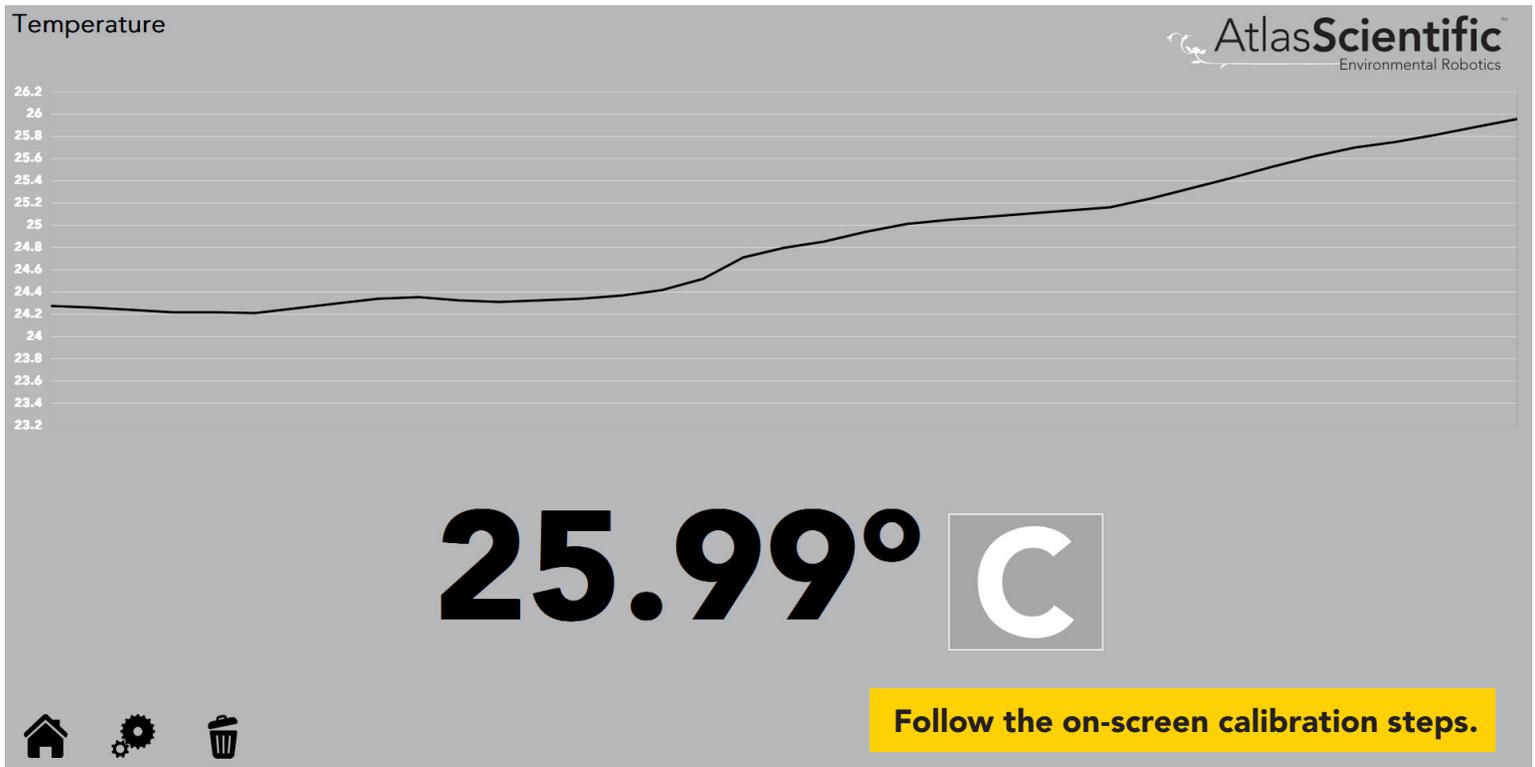
Issuing a calibration command before the readings stabilize will result in drifting readings.



Calibration procedure



Within the AtlasDesktop monitoring software, click on the "gear" icon.

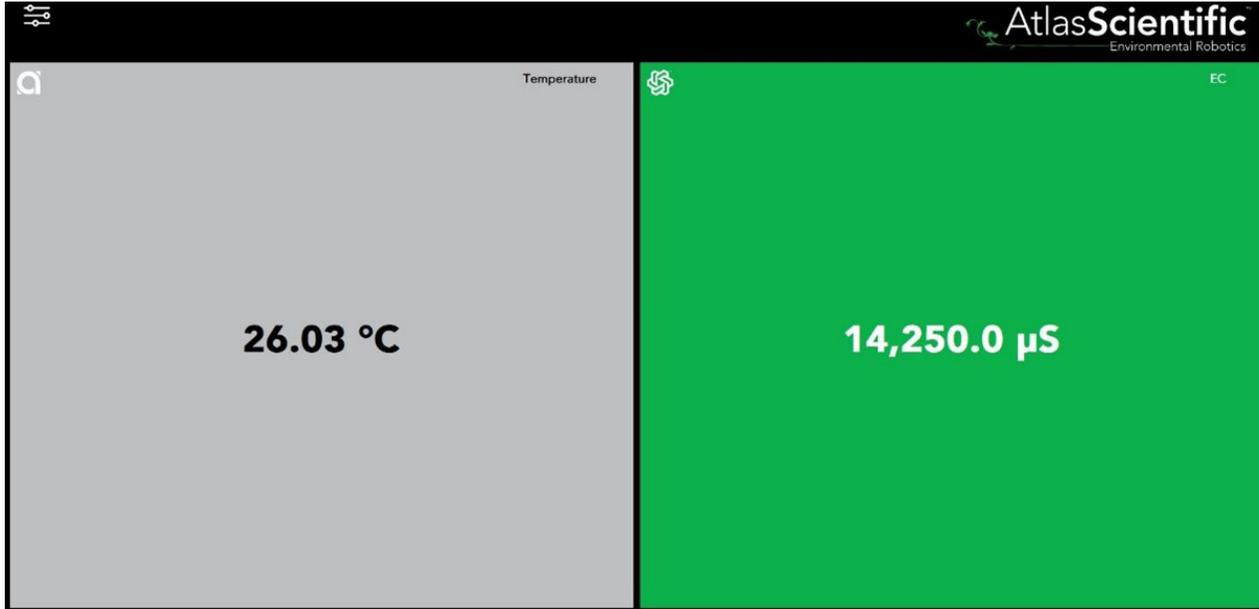


Advanced setup

The EZO-Complete-TMP readings can be linked to other EZO-Complete sensors to provide temperature compensation to the other sensors readings.

Example

We setup an EZO-complete monitoring system to read conductivity and temperature.



Entering the conductivity setup page, you can link the readings from your EZO-Complete temperature sensor to your conductivity readings, this will give you temperature compensated conductivity readings.



The screenshot shows the 'EC' setup page with a green background. The AtlasScientific logo is in the top right. The page contains the following fields and controls:

- Version:** 2.16
- Device Name:** control (text input field)
- Voltage:** 3.81
- Address:** 128
- LED:** Off On
- Temp Compensation Address:** A dropdown menu with '129' selected, and other options '--' and '129' visible below it.

At the bottom left, there are icons for home and refresh. A yellow 'Save' button is located at the bottom center.

The connected EZO-complete-TMP is the device with address 129.
If multiple temperature sensors are connected, multiple address will be listed.
(The temperature sensor address is listed in the temp sensor setup page)