

LI-COR LI-192 and LI-193 Quick Start Guide

Overview

The LI-192 Underwater Quantum sensor measures PAR (photosynthetically active radiation) in freshwater or marine environments.



The LI-193 Underwater Spherical Quantum Sensor gives an added dimension to underwater PAR measurements, as it measures photon flux from all directions. This measurement is referred to as Photosynthetic Photon Flux Fluence Rate (PPFFR) or Quantum Scalar Irradiance.

What's Included

- LI-COR Underwater Sensor
- Underwater LI-COR Connectorized Cable
- Certificate of Calibration Sheet
- LI-COR Manual

Connecting with iChart

1. Unpack the LI-COR Sensor and connect to port A of the SDL.
2. Download iChart software from <http://nexsens.com/support/downloads.htm>
3. Install iChart software and run the program.
Note: Make sure to run iChart as administrator in Windows 7 and Vista and provide write access to Program Files folder.
4. If adding to an existing iChart project, select **Project | Setup Device Wizard**. Otherwise, select **File | New Project**.
5. Follow the wizard to add a site name, data logger, and then choose "LI-COR" from the drop down list of manufacturers. Select LI-193 from the product list for both the LI-192 and LI-193 sensor. Click **Add**.
6. On the LI-COR "Smart Sensor Properties" screen, the list of parameters and their order are fixed. **Do not remove or change parameter order.**

7. Select Channel AD12-AD13 from the drop down menu.
8. In the box under "Scaling" enter the value from the "Certificate of Calibration" listed in $\mu\text{mol/s/m}^2$ per microamp. The application of the sensor determines whether the "in-air" or "in-water" value is used. **Note:** This value should be entered as a positive number.
9. Click **OK** to accept and add the digital sensor to the data logger.

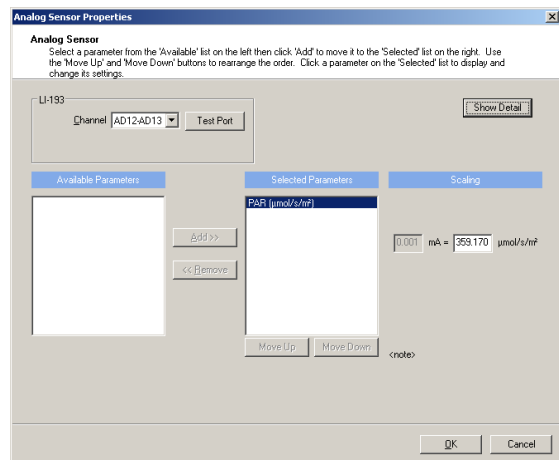


Figure 1 Smart Sensor Properties Menu

10. Follow the wizard and proceed to program the data logger to start collecting data from the LI-COR Sensor.

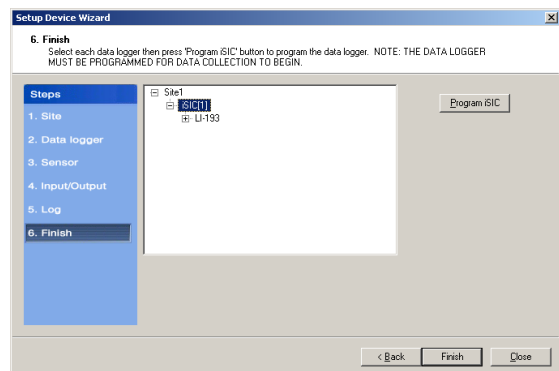


Figure 2 Programming the iSIC