

LIGHTHOUSE PRO XLS™

Specific Gravity Probe Module

Instructions

1. **IMPORTANT:** Disconnect power on the Lighthouse Pro before connecting the Probe Module!
2. Connect the Probe Module cable to any one of the 4 probe adapter connectors on the back of the console.
3. Place the electrode in the aquarium. It is best to physically separate the electrode from any PH or ORP electrodes by at least 24 inches to minimize interference.
4. Power up the Lighthouse Pro. The controller will scan the probe adapter ports during power up and add the new SG Probe Module to its list of active probes.



The Specific Gravity Module requires Lighthouse Pro Firmware 3.1 or higher. Press the ADV OPT button on the remote control to display your current version. If you need to upgrade, go to www.mcuresearch.com and download the latest version.

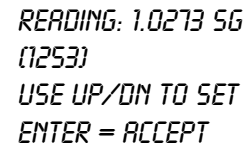
Notes

- Specific Gravity readings are temperature dependent. The Lighthouse Pro must have a temperature sensor connected in order for the module to properly read specific gravity and compensate for temperature. By default, Temperature Sensor #1 is used. You can change this to Temperature Sensor #2 from the *SET OPTIONS* web page. If the temperature sensor is not plugged in or the wrong one is selected, the console will display ????? indicating that a reading is not possible.
- The SG calibration settings stay with the Probe Module connector on the Lighthouse Pro. For example, if the Specific Gravity Module is plugged into connector #2 when you calibrated, then the calibration settings stay with connector #2. If you later move the Probe Module to a different connector, you will need to recalibrate again.

Calibration Procedure

The Specific Gravity Module requires calibration before use. We recommend the use of a refractometer for the calibration procedure. You can also use a float or swing-arm type hydrometer, though these devices are less accurate.

- 1) Make sure the SG probe is in the tank and the proper temperature sensor is selected on the *SET OPTIONS* web page. For dual temperature setups, the selected temperature sensor and SG probe must be in the same aquarium.
- 2) Take a refractometer reading of the tank water.
- 3) Press the *CAL* button on the Lighthouse remote control and then select *SG*. Press the *ENTER* button.
- 4) Use the *UP* and *DOWN* buttons on the remote to match the specific gravity reading on the top line of the display to the refractometer reading. Press the *UP* button to *LOWER* the reading. Press the *DOWN* button to *RAISE* the reading. The number in parenthesis on the second line can be ignored.
- 5) Press the *ENTER* button to lock in the calibration.



READING: 1.0273 SG
(1253)
USE UP/DN TO SET
ENTER = ACCEPT

Maintenance

Every 3-4 months, clean the two metal tips of the salinity probe with an old toothbrush and some dish detergent. Rinse thoroughly before returning the probe to the aquarium. If the tips look dark in color or there are visible signs of contaminants, gently wipe the probe tips with a piece of emery cloth. When clean, the metal probe tips should have a dull sheen to them.

Calibration should be performed every 3-4 months or when readings appear inaccurate.

Manufactured By:
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