

Technical Note #108

Extending Cables for Probe Modules and Power Bars

Power Bar

The 8-outlet power bar ships with a 10 foot cable connecting the power bar to the console. In some installations, the cable may not be long enough. The Lighthouse Pro has been fully tested for reliable operation with a 10 foot cable. We recommend that the equipment be repositioned to maintain a 10 foot cable length. If this is not possible, replacing the cable with one of longer length can be done at your own risk.

The replacement cable should be a *USB 2.0 A/B cable*. Purchase a length that closely fits the installation rather than have excess cable coiled up.

With the new cable installed, test the installation by manually turning outlets on and off. If you receive one or more *AC-x Not Responding* status messages, the cable is too long and the Lighthouse Pro will not work reliably. If you receive this message less frequently, perhaps once every few days, the cable is too long and should not be used. If no messages are received, then the extended cable should work.

Probe Modules

Probe modules come with a 3-foot connecting cable between the module and the controller. If this cable is not long enough, you can purchase a pH electrode with a longer cable (not sold by MCU Research but available elsewhere). This will extend the total length from the controller to the probe. If this is not possible, adding length to the 3-foot connecting cable can be done at your own risk.

You will need an *RJ45 Male-to-Male Adapter* and a *CAT-5e* or *CAT-6 Ethernet cable*. Connect the new cable to the Lighthouse Pro. Connect the adapter to the other end of the cable, then plug the Probe Module into the adapter. Use the shortest cable possible that closely fits the length needed.

Extending the cable may cause a change in probe readings. We recommend that you recalibrate the probe while the extension cable is in place. In rare cases, the readings may become jittery or unstable. If this occurs, reposition the cable away from motors or electrical sources, and do not tie or bundle cables together which can cause interference.