

Cyclops Marine: NKE Integration Guide

Summary

- The Cyclops Gateway must be configured for NKE output
- Serial inputs are available on only the MultiGraphic display and the Box WiFi
- Of these, only the Box WiFi implements a link to the TopLine Bus. This is the connection between all of the NKE displays, and allows data to be shared between them.

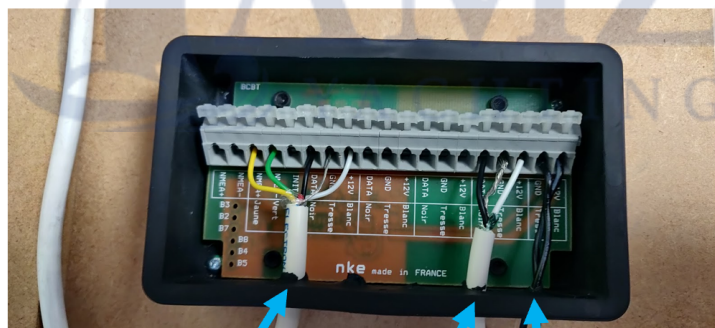
Installation

Before consulting this guide, please read the guides relevant for your wireless load sensor/s and smartfittings gateway.

Integration can be implemented through a Box Wifi (preferable) or Multigraphic display.

Please check that the navigation system is switched off at the switch!

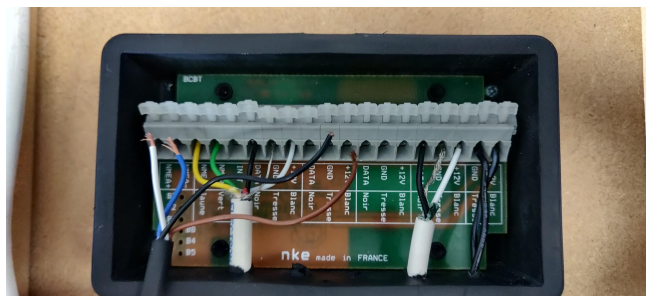
1. Locate junction box into which the WiFi Box or Multigraphic display connects and remove the lid:



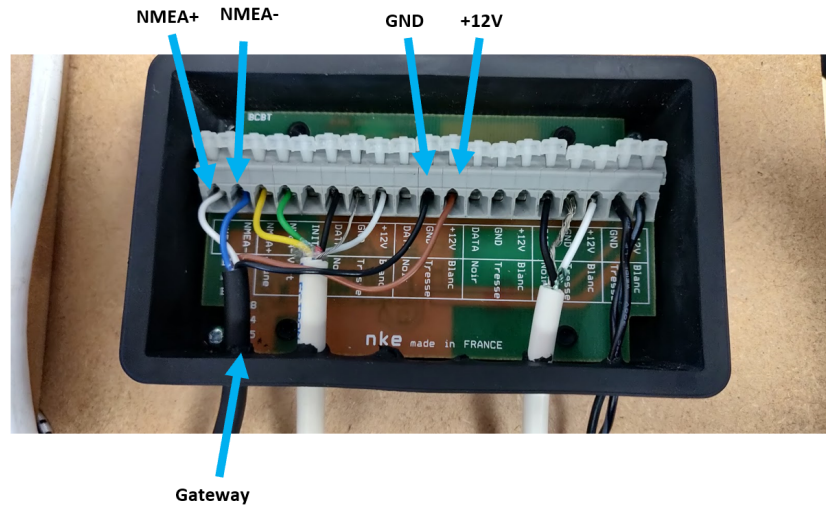
Wi-Fi Box/Multigraphic Connection TopLine Bus Power

2. Run wire from Cyclops Gateway to the junction box. Measure and cut the wires for a neat installation:

Gateway (Cyclops Lead 2)	Junction Box
Black (Noir)	GND Tresse
Brown (Brun)	+12V Blanc
White (Blanc)	NMEA+
Blue (Bleu)	NMEA-



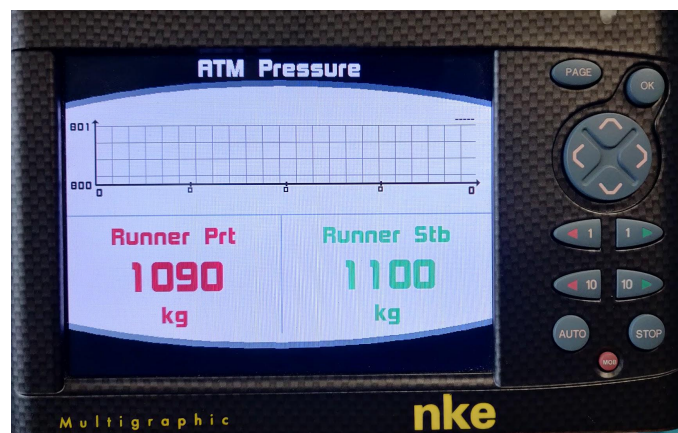
3. Strip and tin the wires from the gateway
4. Connect the wires into the junction box:



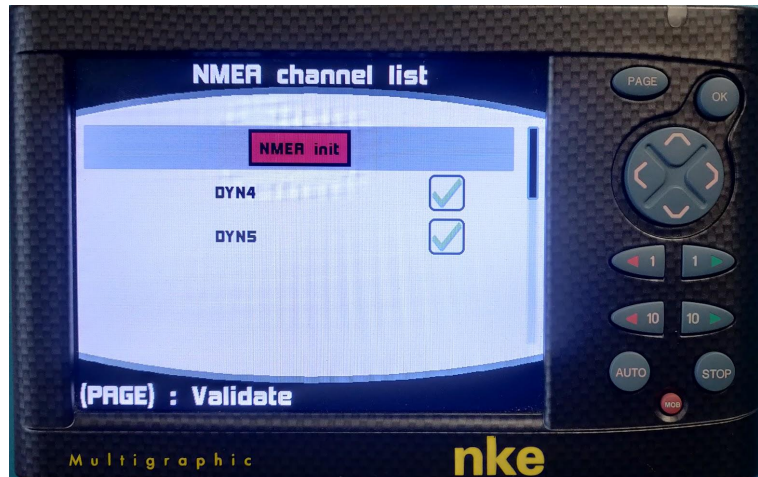
5. Replace the lid

Configuration

1. Power on the electronics.
2. Configure an NKE output for all sensors, using a different dynamic channel for each. Please refer to the relevant **smartfittings** gateway guide for instructions on this.
3. Ensure that all sensors are being received by the gateway.
4. If using a Box WiFi:
 - 4.1. Press and hold "INIT" for 3 seconds. The Box WiFi will receive data from the gateway for 10 seconds, and then allocate a topline channel for each.
 - 4.2. An alert will pop up on a display on the network, showing the slave address of the Box WiFi
 - 4.3. You can now configure the data fields to display the **Dynamic Channels**. These will be available on all displays connected to the Topline Bus:



5. If going directly into a multigraphic display:
 - 5.1. Navigate to Parameters>Maintenance>External Devices>NMEA Channel List
 - 5.2. Select “NMEA init”, then “Yes”
 - 5.3. The multigraphic display will capture the channels being output from the Cyclops Gateway. These channels will then be displayed. Ensure all of your sensor channels are seen here:



- 5.4. Data is now available to add to pages on that display. Due to the nature of the Multigraphic display, the data will not be available on the Topline Bus.

