

# Furuno MFD Integration

## 1. Introduction

This document explains how to connect to Furuno MFDs using an Ethernet connection.

Make sure to also study the [Marine MFD Integration by App chapter in the manual](#).

Note that there is an alternative method to connect, which is NMEA2000. See the [NMEA2000 chapter in the main manual](#).

## 2. Compatibility

Furuno MFD software requirements: TDB

The MFD integration is compatible with the following models:

- NavNet TZtouch3 TZT12F
- NavNet TZtouch3 TZT16F
- NavNet TZtouch3 TZT19F
- Navnet TZtouch2 TZT2BB Black box

Note that the Navnet TZtouch2 TZTL models are **not** supported.

## 3. Wiring

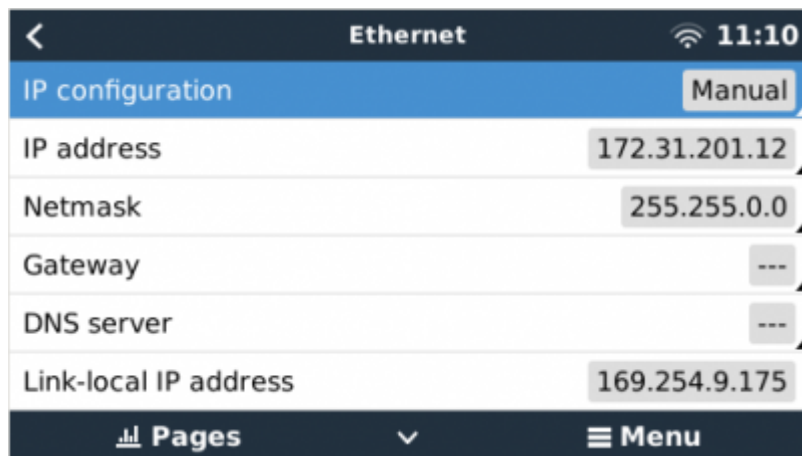
The Furuno device needs to be connected to the [GX device](#) using Ethernet. Its not possible to connect over WiFi. For the ethernet connection, a standard ethernet cable can be used.

## 4. Configuration

### 4.1 Ethernet configuration

On the Victron GX Device, go to *Settings* → *Ethernet*, and change the following settings:

Setting	Value
IP Configuration	Manual
IP address	172.31.201.12
Netmask	255.255.0.0
Gateway	0.0.0.0 or the IP address of the router in your network
DNS server	0.0.0.0 or the IP address of the router in your network



The screenshot shows the 'Ethernet' configuration screen. At the top, there's a back arrow, the title 'Ethernet', and a signal strength icon with the time '11:10'. Below this is a section for 'IP configuration' with a 'Manual' button. The settings are as follows:

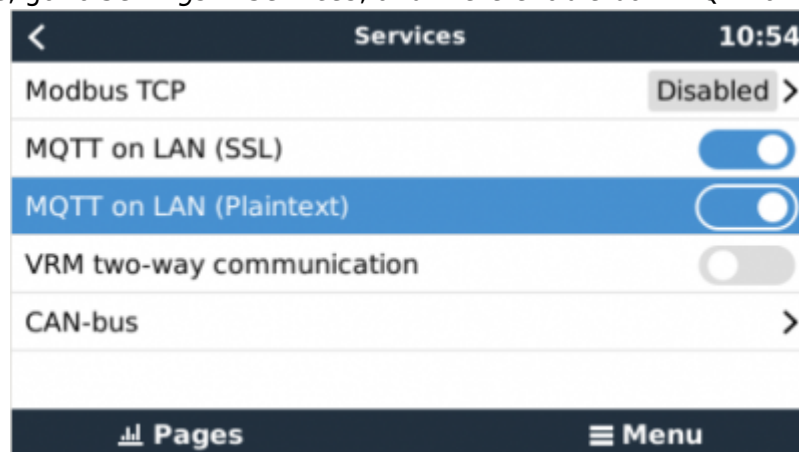
Setting	Value
IP address	172.31.201.12
Netmask	255.255.0.0
Gateway	---
DNS server	---
Link-local IP address	169.254.9.175

At the bottom, there are icons for 'Pages' and 'Menu'.

It is possible to connect the a router to the same LAN; and that way connect the GX Device to the internet. Make sure the *Gateway* setting of the GX is set to the IP address of the router.

## 4.2 Services configuration

On the Victron GX Device, go to *Settings* → *Services*, and there enable both *MQTT on LAN (SSL)* and



The screenshot shows the 'Services' configuration screen. At the top, there's a back arrow, the title 'Services', and the time '10:54'. The settings are as follows:

Service	Status
Modbus TCP	Disabled >
MQTT on LAN (SSL)	<input checked="" type="checkbox"/>
MQTT on LAN (Plaintext)	<input checked="" type="checkbox"/>
VRM two-way communication	<input type="checkbox"/>
CAN-bus	>

At the bottom, there are icons for 'Pages' and 'Menu'.

*MQTT on LAN (Plaintext)*.

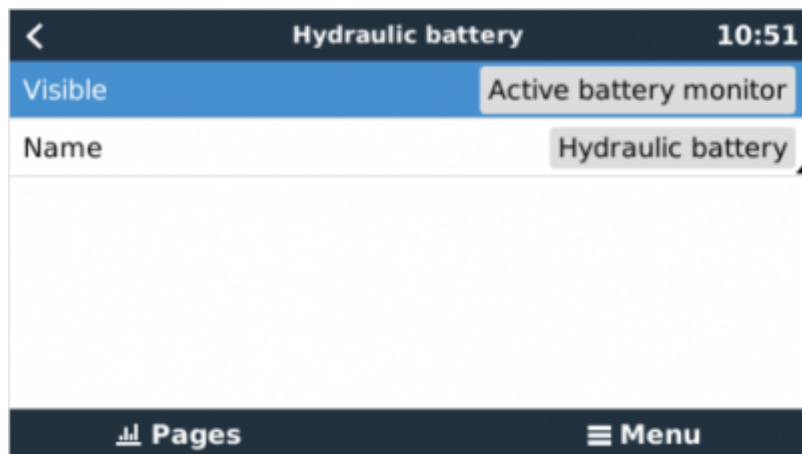
Next, go to *Settings* → *System Setup* → *Scroll to the bottom* → *Marine MFD App configuration*. And there set up what batteries you want to see on the MFD; and by what name.



The screenshot shows the 'Marine MFD App configuration' screen. At the top, there's a back arrow, the title 'Marine MFD App configuration', and the time '10:49'. The settings are as follows:

Battery Name	Visibility
Hydraulic battery	Visible >
Hydraulic battery (Auxiliary measurement)	Hidden >
House battery	Hidden >
MultiPlus 48/3000/35-50	Hidden >

At the bottom, there are icons for 'Pages' and 'Menu'.



## 5. Configuring Multiple Battery Monitors



### Video

From:

<https://www.victronenergy.com/live/> - **Victron Energy**

Permanent link:

<https://www.victronenergy.com/live/venus-os:mfd-furuno?rev=1591780863>

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