# 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. Currently Furuno MFDs only have support for fluid level PGNs sent out by Victron equipment.

## 2. Compatibility

The MFD integration is compatible with the following models:

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

NavNet TZtouch3 MFDs need at least software version v1.08. The Navnet TZtouch2 TZT2BB needs at least software version v7.

Note that the Navnet TZtouch2 TZT**L** 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. The GX device can either be connected directly to the MFD or through a network router/switch.

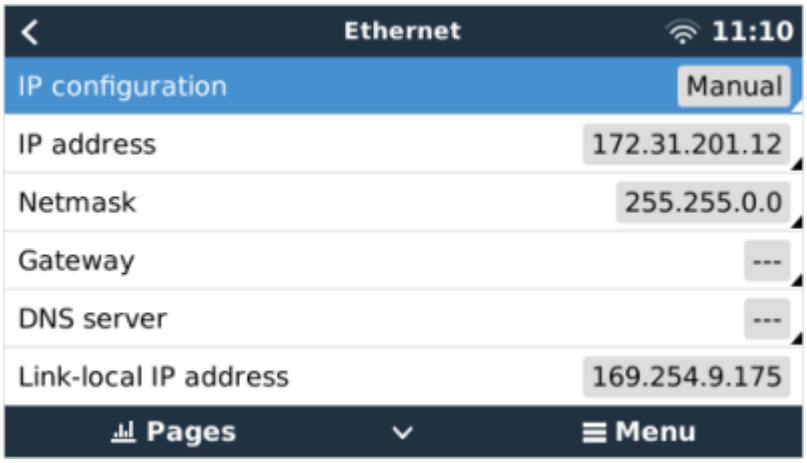
## 4. Configuration

### 4.1 Ethernet configuration

On the Victron GX Device, make sure that the Ethernet cable is connected and go to *Settings* → *Ethernet*, and set the following configuration:

| **Setting** | **Value** |
|---|---|
| IP Configuration | Manual |
| IP address | 172.31.201.12 |

| Setting | Value |
|---|---|
| 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 |

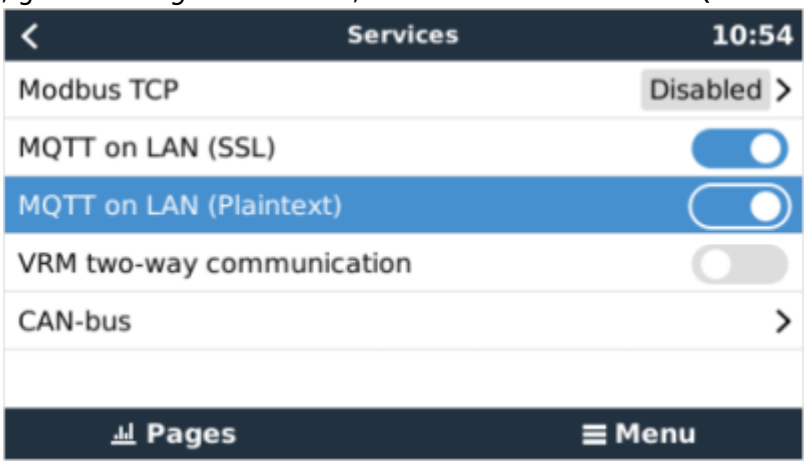



It is possible to connect a router to the same LAN; and that way connect the GX Device to the internet. Make sure the *Gateway* and *DNS Server* settings of the GX are set to the IP address of the router.

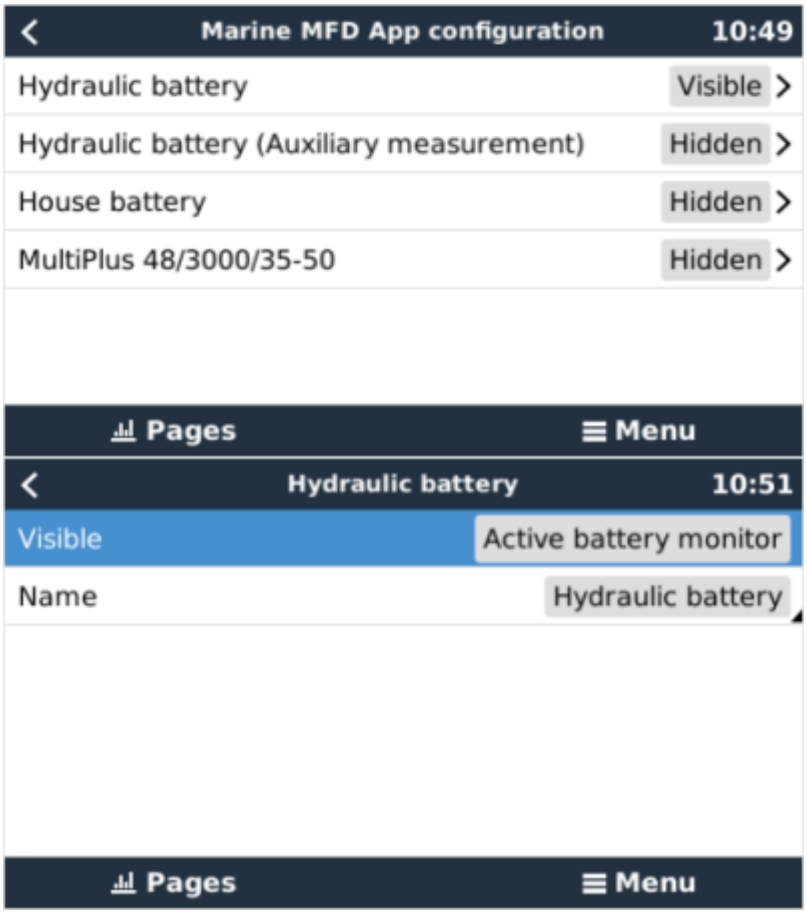
It is not possible to use a GX GSM.

## 4.2 Services configuration

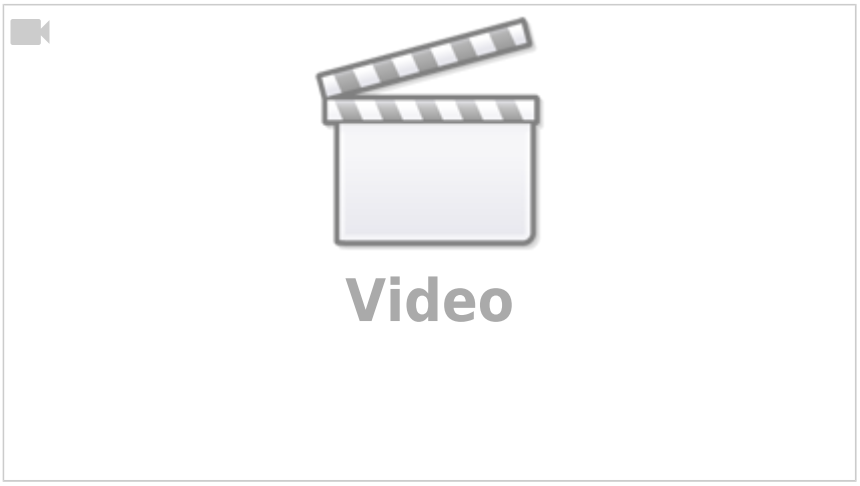
On the Victron GX Device, go to *Settings* → *Services*, and there enable both *MQTT on LAN (SSL)* and *MQTT on LAN (Plaintext)*.




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.




## 5. Configuring Multiple Battery Monitors




## 6. NMEA 2000

The MFD can also be connected to the GX device using NMEA 2000, see NMEA2000 chapter in the main manual. However, there is only limited support for NMEA 2000 PGNs sent from Victron equipment.

The MFD can be configured easily to display the data from the GX device. There is no need to change any instance. To view NMEA 2000 devices on the MFD, go to *Settings* > *Initial Setup* > *Data Aquisition* > *Sensor List*. Here you can view basic information and change device instances and custom names.

The following Victron PGNs are supported:

- 127505 - Fluid level (tanks)
- 127506 - DC Detailed Status (limited support); State-of-charge, Time-to-go
- 127508 - Battery Status (limited support); Voltage, Current

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Last update: **2020-06-25 15:07**