

Nodo OpenTherm Gateway USR-TCP232-T2 Quick Start Guide

This quick start guide will help you to start with the USR-TCP232-T2 connected to the Nodo OpenTherm Gateway. The USR-TCP232-T2 is a tiny size serial to ethernet module which realizes data bidirectional transparent transmission between TTL port and RJ45 port that can be connected on top of the Nodo OpenTherm Gateway.

Default configuration of the USR-TCP232-T2

Username	admin
Password	admin
IP address	192.168.0.7
Subnet mask	255.255.255.0
Default gateway	192.168.0.1
Serial baud rate	115200
Serial parameter	None,8,1
Local port	20108
Target IP	192.168.0.201
Target port	8234

Connecting and configure the USR-TCP232-T2

On the computer you should set a static IP address which is in the same network segment with the USR-TCP232-T2. To do so open the network settings and change or add the following static IP configuration on your computer.

IP address	192.168.0.201
Subnet mask	255.255.255.0
Default gateway	192.168.0.1

You can revert your IP settings after the configuration of the USR-TCP232-T2 is finished.

Open a web browser and go to the address <http://192.168.0.7>, logon with the default username and password. You will view the "Current Status" page of the USR-TCP232-T2 module.

Click at left side on "Serial Port" and configure to the following settings to enable communication between the USR-TCP232-T2 and the OpenTherm Gateway. When done click save.

Baud Rate	9600
Data Size	8bit
Parity	None
Stop Bits	1
Local Port Number	23
Remote Port Number	Disabled in TCP Server work mode
Work Mode	TCP Server
Remote Server Addr:	Disabled in TCP Server work mode
RESET	Unchecked
LINK	Unchecked
INDEX	Unchecked
Similar RFC2217	Unchecked

Click at left side on "Misc Config" and configure to the following settings or your own taste. When done click save.

Module Name	OpenTherm Gateway (or what you like)
Webserver Port	Leave if you do not know what this is doing
Username	admin (or what you like)
Password	Advice to change this always from the default
MAC Address	Leave if you do not know what this is doing
Max Clients Connect	5 (or as much as you need between 1 and 16)
Reset Timeout	3600

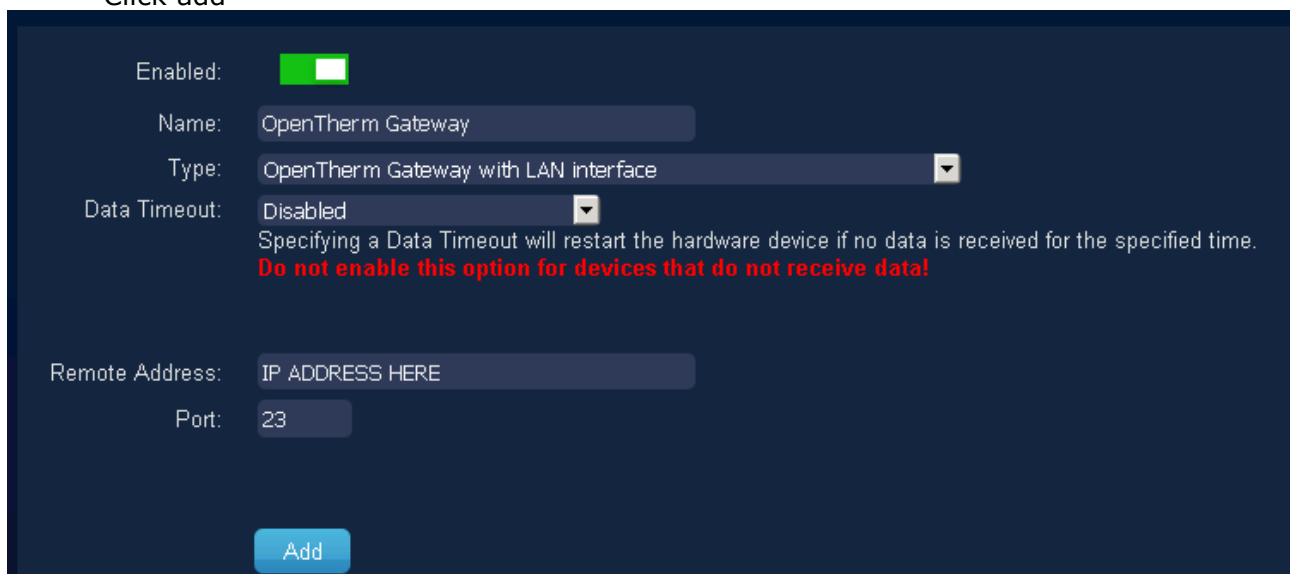
Click at left side on "Local IP Config" and configure settings to mach your local network. When done click save. After changing these settings you need to set your browser to the new IP address to access the USR-TCP232-T2 configuration again.

Connecting and configuring domotica software

To use the Nodo OpenTherm Gateway in domotica software you can add the OpenTherm IP interface if supported. Here are two examples for Domoticz and HomeSeer.

Nodo OpenTherm Gateway in use with Domoticz

- Open the website of your Domoticz server
- Click on Setup and select Hardware
- Give the hardware interface a name
- Select OpenTherm Gateway with LAN interface as type
- Set Data timeout to disabled
- Set the IP address to the one configured above
- Set the port to 23
- Click add



The screenshot shows a configuration form for a hardware device in Domoticz. The background is dark blue. The form fields are as follows:

- Enabled:** A green toggle switch is turned on.
- Name:** A text input field containing "OpenTherm Gateway".
- Type:** A dropdown menu showing "OpenTherm Gateway with LAN interface".
- Data Timeout:** A dropdown menu showing "Disabled". Below this field is a warning: "Specifying a Data Timeout will restart the hardware device if no data is received for the specified time. **Do not enable this option for devices that do not receive data!**"
- Remote Address:** A text input field containing "IP ADDRESS HERE".
- Port:** A text input field containing "23".
- Buttons:** A blue "Add" button is located at the bottom of the form.

Nodo OpenTherm Gateway in use with HomeSeer

- Download free OpenTherm Gateway support from <https://www.domoticaforum.eu/viewtopic.php?f=47&t=6634&sid=079ea6cbc9dadd5dbec1059f9c2eb214>
- Open the file C:\Program Files\HomeSeer\Config\hssi_BLB_OT_monitor.ini
- Set the following configuration:
Telnet=TRUE
SerialPortConfig=9600,N,8,1
TCPAddress=[IP address set above]
TCPPort=23