

Version 1.1

Index

| | |
|--|----|
| oN2openMaster | 3 |
| oN2openMaster Control | 4 |
| oN2openMaster Monitor..... | 8 |
| oN2openMaster Settings..... | 11 |
| oN2openMaster N2 Open protocol information | 12 |

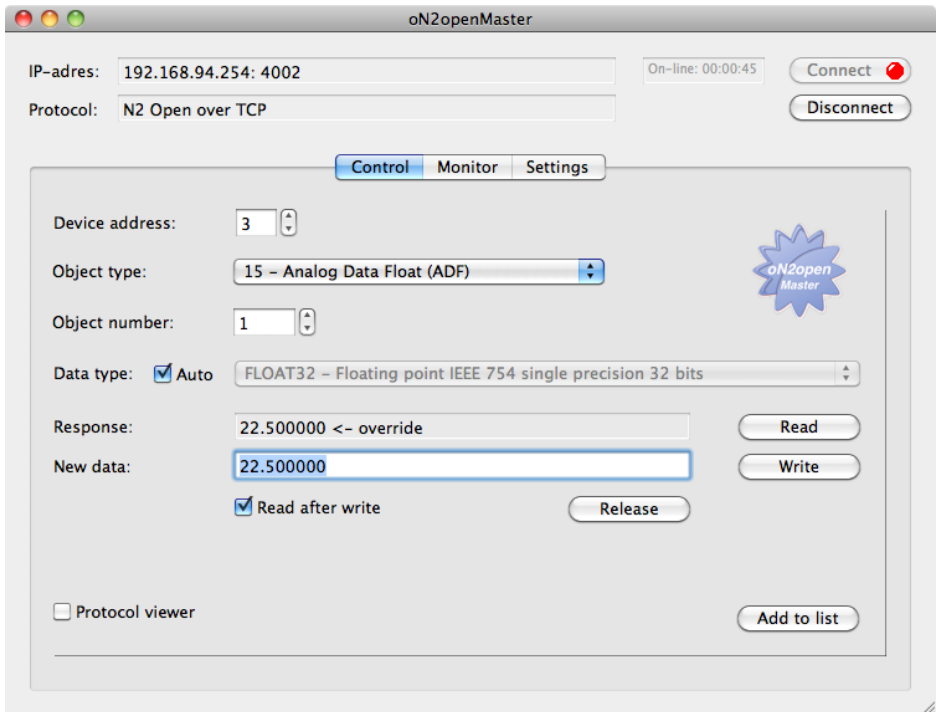
oN2openMaster

oN2openMaster is an easy to use program for communication with N2 Open devices.

- Control** - Read and write data from and to a N2 Open device
- Monitor** - Read and write data using a list of N2 Open items
- Settings** - Configure oN2openMaster

oN2openMaster Control

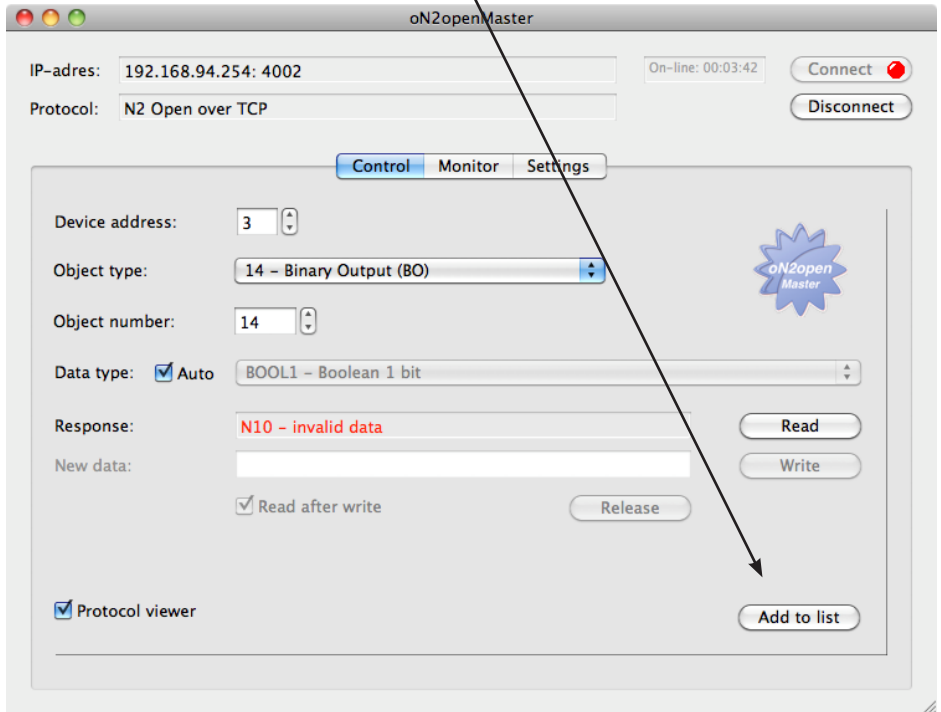
Control can be used to check N2 Open devices for available items and their data types.



Read after write can be set to check whether the item was correctly written. When an item is set to override, you can use the **Release** button to set the item to normal state.

When **Auto** is selected, oN2openMaster automatically sets the correct Data type for the selected Object type.

You can add an item directly to the monitor items list by using the **Add to list** button.



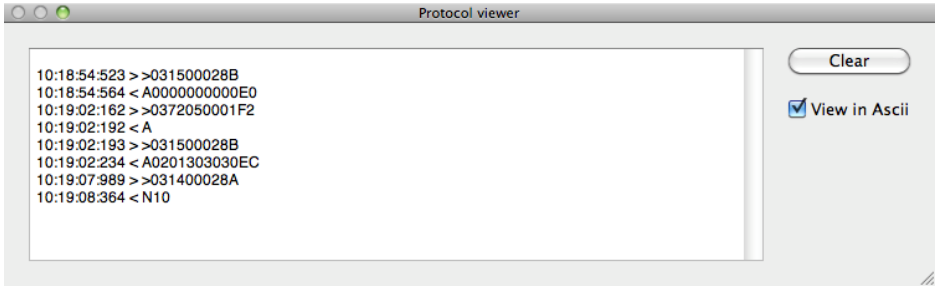
oN2openMaster can read and write items for the following **Object** types:

- 11 - Analog Input (AI)
 - 12 - Binary Input (BI)
 - 13 - Analog Output (AO)
 - 14 - Binary Output (BO)
 - 15 - Analog Data Float (ADF)
 - 16 - Analog Data Integer (ADI)
 - 17 - Binary Data (BD)
-

The following **Data types** are available:

- BOOL1 - Boolean 1 bit
- FLOAT32 - Floating point IEEE 754 single precision 32 bits
- HEX1 - Hexadecimal 1 byte
- HEX2 - Hexadecimal 2 bytes
- HEX4 - Hexadecimal 4 bytes
- INT8 - Signed integer 8 bits
- INT16 - Signed integer 16 bits
- UINT8 - Unsigned integer 8 bits
- UINT16 - Unsigned integer 16 bits

You can enable the **Protocol viewer** to get more information about the datastream.

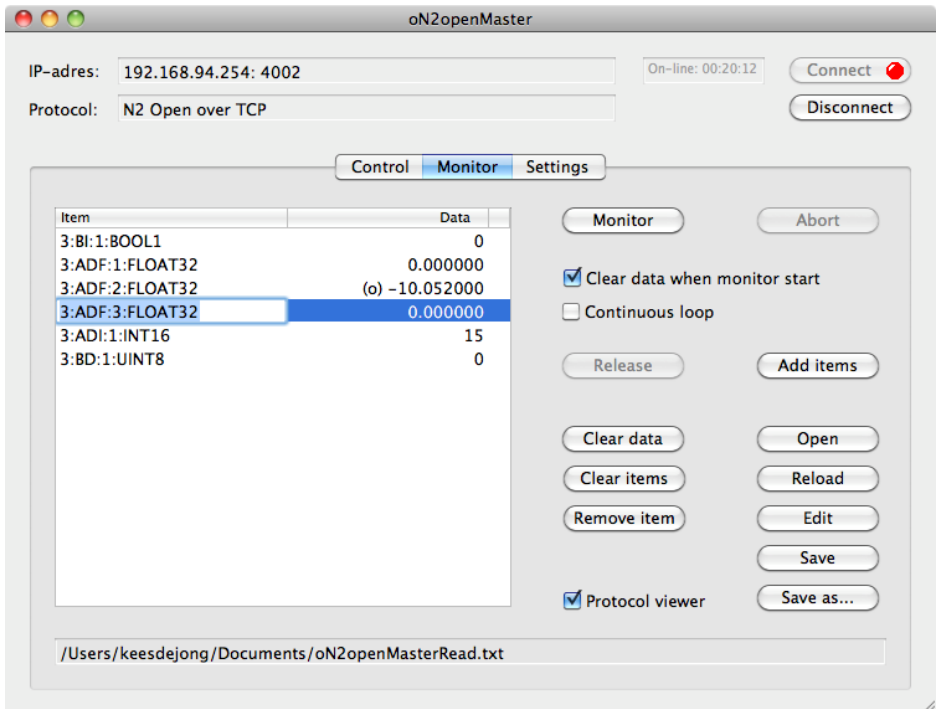


oN2openMaster Monitor

Monitor can be used to read and write a list of items used by the selected N2 Open device.

oN2openMaster can Save, Save as... and Open a customized item list.

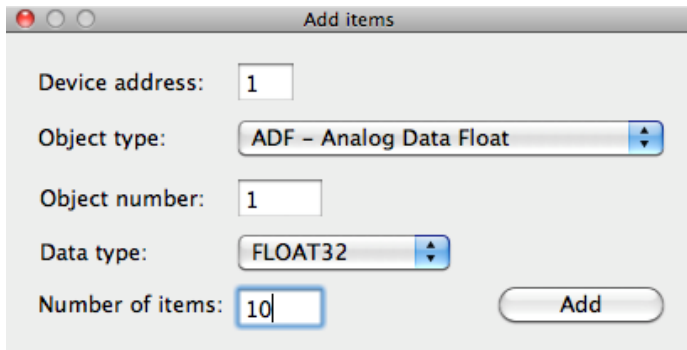
You can easily add, remove or modify items. By double clicking an item or datafield, you can change it.



The following object **Descriptions** are used:

AI – Analog Input
BI – Binary Input
AO – Analog Output
BO – Binary Output
ADF – Analog Data Float
ADI – Analog Data Integer
BD – Binary Data

Items can be added to the list via the Control screen (for a single item) or by using the **Add items** button.



Device address: 1

Object type: ADF - Analog Data Float

Object number: 1

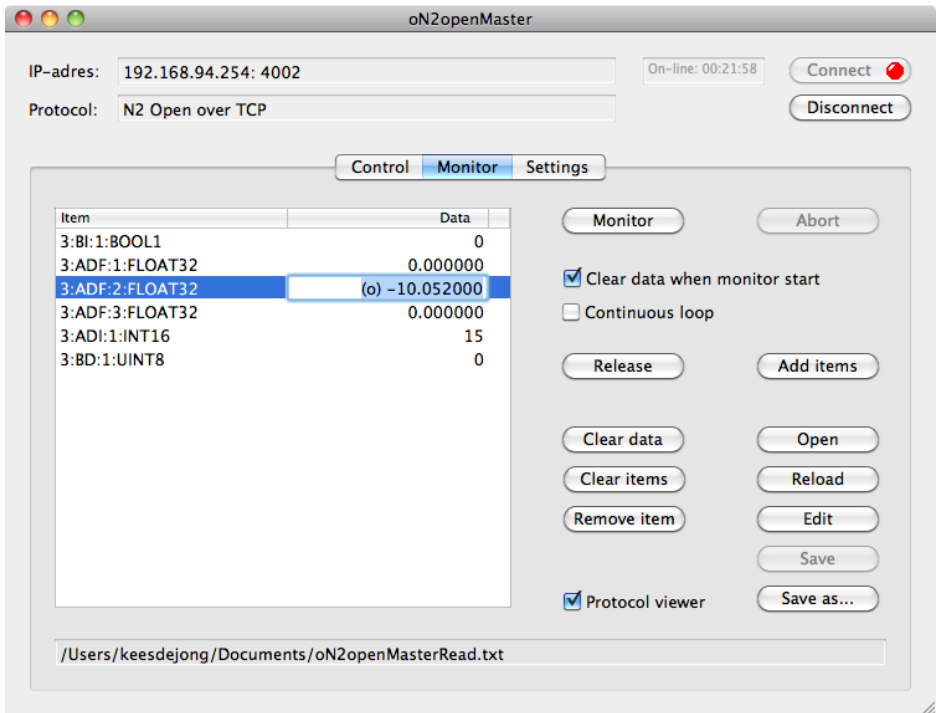
Data type: FLOAT32

Number of items: 10

Add

When data is read (using the **Monitor** button), you can modify the data by double clicking the datafield.

When the data is changed, it is written directly to the N2 Open device.

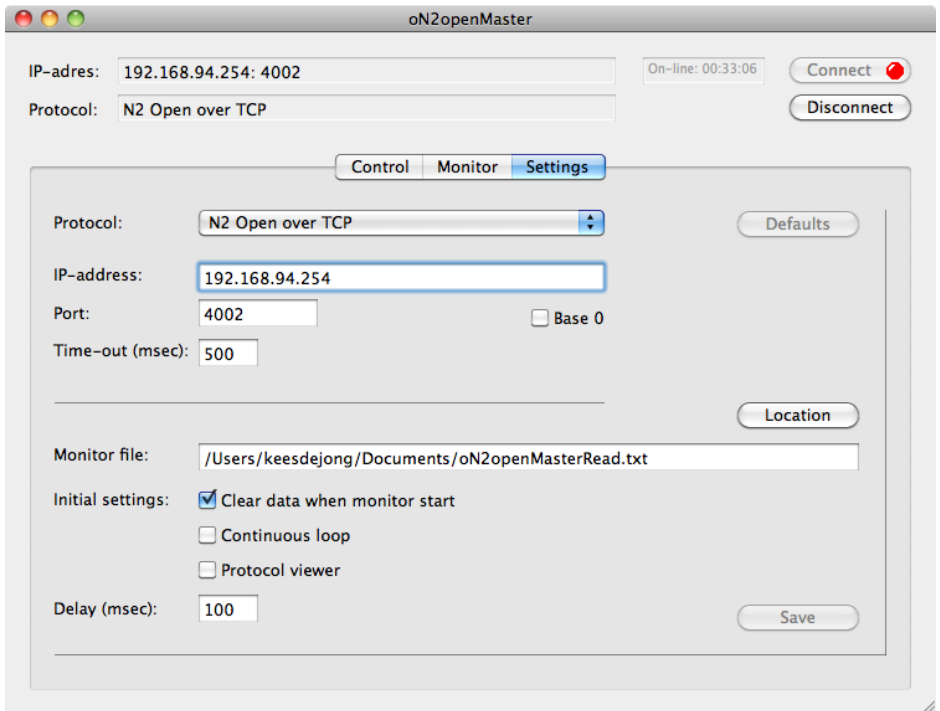


When **(o)** is shown in the datafield, the item is set to override status. You can release the item by typing "release" in the datafield or by pressing the **Release** button when the item is selected.

When **Continuous loop** is selected and Monitor is in progress, changing items or data is not allowed. You can stop the continuous loop by pressing the **Abort** button.

oN2openMaster Settings

Use Settings to configure oN2openMaster.



oN2openMaster can communicate with N2 Open devices using an IP address and port. You can use a standard ethernet to RS485 converter.

For more information about "How to make a serial device for RS232 or RS485 available via TCP/IP?", visit the Support page of www.optipro.nl.

Time-out (msec) is used for each N2 Open protocol package.

The **Monitor file** is used to store the monitor item list.

The **Delay (msec)** is used as time between each item being read during monitoring.

oN2openMaster N2 Open protocol information

The N2 Open protocol is a general interface for accessing data that resides in devices on the N2 network.

More information is available by Johnson Controls, Inc. Manual Metasys N2 Systems Protocol Specification for Vendors (04-3402-22).