Modbus/TCP Connection and Setup Guide

Cable and connection: (p35-36, 41)

A patch/crossover cable with an RJ45 connector is required to use the Ethernet interface.

- The Ethernet interface can be configured directly on the device.
- DHCP and DNS are also supported. It is possible to obtain the IP configuration. automatically via DHCP. If necessary, the IP configuration can also be set up manually.
- In the N2o Wastewater System, the **TCP port 502** is set permanently to Modbus/TCP and cannot be changed.
- The configuration of the Modbus device address is not required for Modbus/TCP.
- Bus users are identified by their IP address. The **Unit ID** (Modbus device address in the Modbus/TCP telegram) is set permanently to **255** (See “Modbus/TCP” on page 41.)

Address table:

N_2O concentration and emission

Hex	Dec	Data type	Access	Data	Value Note
15C5	5573	float	r/o	Calculated result formula 1	N_2O Concentration value Sensor 1 (g/m^3 N-N_2O)
15C7	5575	float	r/o	Calculated result formula 2	N_2O Concentration value Sensor 2 (g/m^3 N-N_2O)
15C9	5577	float	r/o	Calculated result formula 3	N_2O Emission value Sensor 1 (g/m^3/day N-N_2O)
15CB	5579	float	r/o	Calculated result formula 4	N_2O Emission value Sensor 2 (g/m^3/day N-N_2O)

Raw values (optional)

Hex	Dec	Data type	Access	Data	Value Note
16A0	5792	float	r/o	Measured value IN 6 compensated2	Airflow input (m3/h)
16A2	5794	float	r/o	Measured value IN 11 compensated	N_2O raw value Sensor 1
16A4	5796	float	r/o	Measured value IN 12 compensated	N_2O raw value Sensor 2
16BB	5819	float	r/o	Measured temperature value IN 4	Temperature value Sensor 1
16BD	5821	float	r/o	Measured temperature value IN 5	Temperature value Sensor 2
16DA	5850	bool	r/o	Binary value IN 1	Air ON tank 1
16DB	5851	bool	r/o	Binary value IN 2	Air ON tank 2

Unisense Environment A/S
Tueager 1
DK-8200 Aarhus N
Denmark

Phone: +45 89 44 95 00
Fax: +45 89 44 95 49
sales@unisense-environment.com
www.unisense-environment.com