

N₂O Wastewater System

Installation Guide

Equipment Installation · Operation · Maintenance & Service

Parameter	Specification
Document Number	DOC-N ₂ O-WW-INST-001
Version	August 2026
Applicable Units	N ₂ O Wastewater Operator Console · N ₂ O Wastewater Connector Unit · N ₂ O Wastewater Sensor (Digital)
Manufacturer	Unisense Environment A/S · Langdyssen 5 · DK-8200 Aarhus N · Denmark
Contact	+45 8944 9500 sales@unisense.com unisense-environment.com

IMPORTANT – Read before use

Read this entire document before installing, operating or servicing this equipment. Retain this document and keep it accessible to all operators and service personnel.

Follow all safety instructions. Failure to do so may result in personal injury or equipment damage.

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1. Equipment Installation

This section covers all information required to safely installation of the N₂O Wastewater System: mains supply, grounding and safety requirements, cable specifications, mounting instructions for each of the units comprising the N₂O Wastewater System (N₂O Wastewater Operator Console, N₂O Wastewater Connector Unit, and N₂O Wastewater Sensor), and the mandatory external disconnecting device/circuit breaker.

1.1 System Overview

The N₂O Wastewater System consists of three hardware units connected as shown below. The N₂O Wastewater Operator Console is powered from the mains supply (100–240 VAC). It houses the 24 V DC power supply for the N₂O Wastewater System, the HMI touchscreen display and wiring accessories. Through the isolator the RS485 field bus that connects to the N₂O Wastewater Connector Unit. Furthermore, the N₂O Wastewater Connector Unit receives and distributes the 24 V DC from the N₂O Wastewater Operator Console and RS485 communication to up to two N₂O Wastewater Sensors for each N₂O Wastewater Connector Unit. See appendix D for further information.

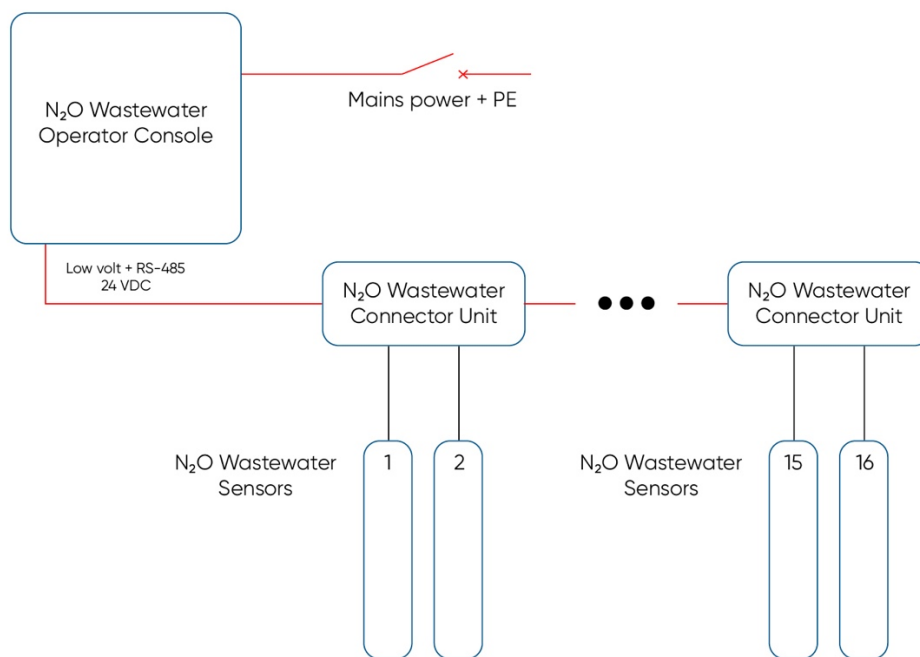


Figure 1: N₂O Wastewater System setup and connections overview. Note: The cable identified in red must be supplied by the customer. For the required specifications see section 1.2 for Mains power & 1.3 for the cable between the Console and the Connector Unit.

1.2 Mains Power Supply Requirements

The N₂O Wastewater Operator Console must be connected to a mains supply meeting the following requirements: Mains wiring must be carried out by a qualified electrician in compliance with the wiring specification and any applicable national wiring standards at each wastewater treatment plant site.

WARNING – Electric Shock Hazard

Mains voltage is present inside the Operator Console enclosure at the power supply input terminals. All mains wiring must be performed by a qualified electrician. Disconnect and lock out all power before working on the mains supply.

The protective earth (PE) conductor must always be connected.

Parameter	Specification
Model/Maker	Schneider Electric ABLM1A24025 AC/DC PSU
Main Power Supply Voltage	AC 100–240 V $\pm 10\%$, 50–60 Hz, single phase
Output Voltage	24 V DC, Max Output 2.5A
Max. Power Consumption	60 W
Min. Conductor CSA	0.75 mm ² per conductor (three conductors: L, N, PE) – use 3G0.75 mm ² (AWG18) or heavier
Min. Cable Voltage Rating	300/500 V minimum
Sheath Material	PVC or equivalent thermoplastic, flame retardant per IEC 60332-1 (or VW-1 for North America)
Number of Conductors	3 – Line, Neutral, Protective Earth (internal wire in Yellow/Green)
Input and Output Connectors	Screw terminals: 0.5–2.5 mm ²
Temperature Rating	-20°C – 40°C, 0–95% RH, non-condensing, Altitude ≤ 2000 m.

NOTE – Main Power Supply Cable

Select a cable according to the table above and meeting the standard applicable to your region. Use minimum 3G0.75 mm² (AWG18) or heavier:

- North America: VW-1 rated cord (e.g. SVT, SJT or equivalent)
- Europe / IEC regions: IEC 60332-1 compliant sheath (standard PVC mains cord sheath meets this)

Mains wiring connection inside the Operator Console terminal block:

Wire Colour	Terminal	Function
Brown	L1	Line (Live)
Blue	N	Neutral
Yellow/Green	PE	Protective Earth – must always be connected

WARNING – Protective Earth

The PE conductor must always be connected. Equipment must not be operated without a protective earth connection.

Failure to connect PE may result in electric shock in the event of an insulation fault.

1.3 Cable between N₂O Wastewater Operator Console and N₂O Wastewater Connector Unit

The cable between the N₂O Wastewater Operator Console and the N₂O Wastewater Connector Unit carries 24 VDC power and RS485 communication. This cable must be supplied and installed by the customer. Select the cable cross-section based on the total cable run length:

Parameter	Specification
Up to 100 m total length	2×2×0.5 mm ² twisted pair cable with overall shield (OS)
Up to 200 m total length	2×2×0.75 mm ² twisted pair cable with overall shield (OS)

Pair assignment:

As this cable is customer-supplied, wire colours may vary. Pair assignment must be made according to the twisted-pair grouping as specified below:

- One twisted pair → 24 VDC Power (+) and Power Ground (–)
- Other twisted pair → RS485 Data A (MOD A) and RS485 Data B (MOD B)
- Do not split a twisted pair across functions (e.g. one wire to power, the other to RS485). Each pair must stay together.

The terminal assignment at each end is:

Pair	Terminal	Function	Notes
Pair 1 – wire A	24V	24 VDC Power (+)	
Pair 1 – wire B	GND	Power Ground (–)	Also shield termination point – see below
Pair 2 – wire A	MOD A	RS485 Data A	
Pair 2 – wire B	MOD B	RS485 Data B	

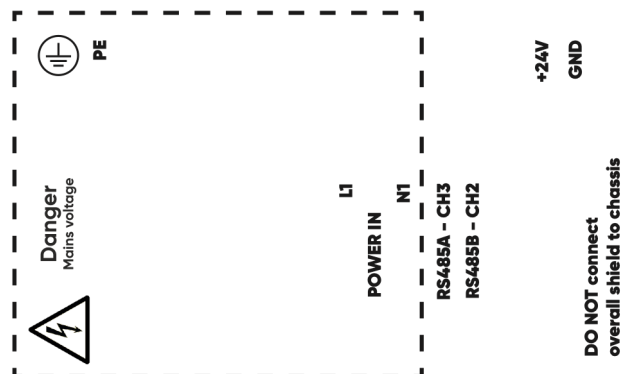
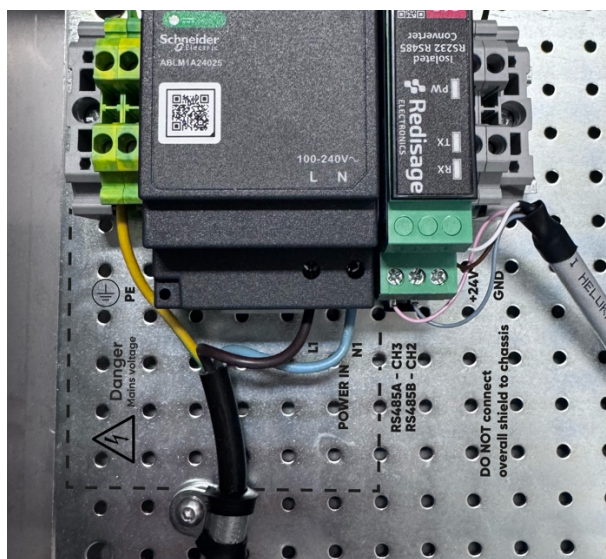
Overall shield termination:

Terminate the overall shield (OS) of the cable as follows at each end:

- Strip back the cable outer jacket and the overall shield foil/braid sufficiently to allow a short pigtail.
- Twist the exposed shield wires/foil tail neatly together.
- Slide a length of heat-shrink tubing over the pigtail, to prevent unintended contact with any metallic surface inside the enclosure.
- Connect the shield pigtail to the Power Ground (–) terminal only.

WARNING – Shield grounding

Do NOT connect the cable overall shield to the enclosure chassis, the cabinet metalwork. The shield must be terminated electrically at the Power Ground (–) terminal only. Connecting the shield to the chassis will create a ground loop that can create ground loop, introduce measurement noise, or cause equipment damage. Cover the shield pigtail with heat-shrink tubing before routing it inside the enclosure to prevent accidental chassis contact.



Picture 1A: Cables inside the N₂O Wastewater Operator Console (Engraving visualization)

Picture 1B: Engraved text and symbols



Picture 2: HMI Caution Label inside the N₂O Wastewater Operator Console

1.4 External Disconnecting Device

The N₂O Wastewater Operator Console does not include built-in main disconnect. In accordance with safety standards, an external means of disconnection must be provided in the building supply wiring. See Figure 1: N₂O Wastewater System setup and connections overview.

REQUIREMENT – External Disconnect Device

An external switch or circuit breaker device must be installed in the mains supply wiring.

- Rated for the supply voltage and current.
- Located close to the Operator Console and easily reachable at all times.
- Clearly and permanently labelled as the DISCONNECTION DEVICE for the N₂O Wastewater Operator Console.
- Must disconnect all poles of the supply simultaneously (double-pole or multi-pole breaker).

Recommended label example: [N₂O CONSOLE – MAINS ISOLATOR]

WARNING

Do not position the equipment in a way that makes it difficult to reach or operate the disconnecting device.

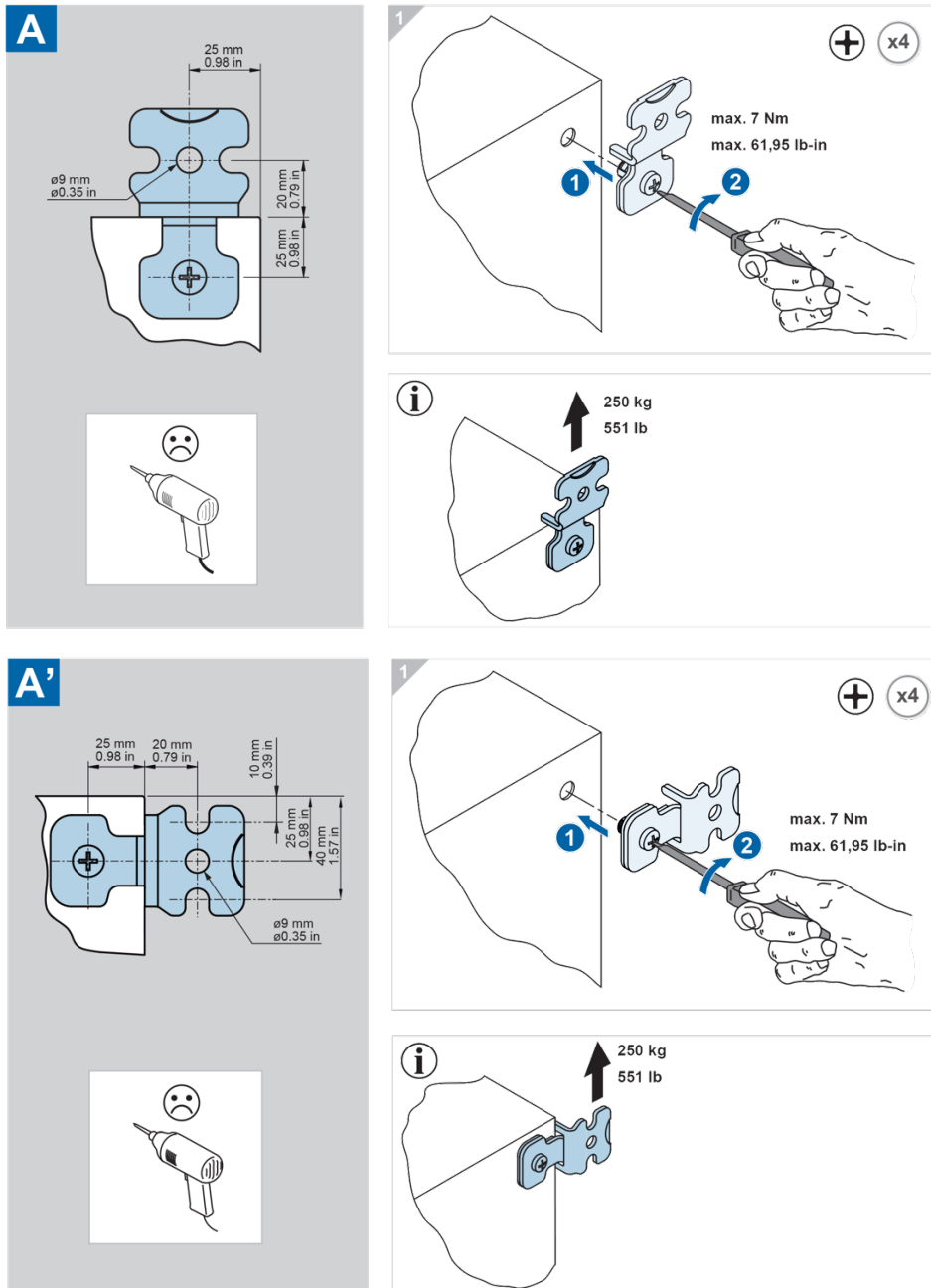
The external disconnecting device must always be reachable without removing obstacles or using tools.

1.5 Mounting Instructions

1.5.1 N₂O Wastewater Operator Console

The Operator Console is a wall-mounted cabinet for in- and outdoor installation and designed for IP66 protection level. Follow the steps below.

1. Attach the 4 brackets to the back of the console. Follow the instructions below.



2. Select location: indoors or outdoors; accessible for touchscreen operation; near the external disconnect device; within cable reach of the N₂O Wastewater Connector Unit (see cable specification in sec. 1.3). Operating temperature: -20 – 40°C.
3. Mark and drill fixing points using the rear mounting holes as a template. Use M6 or similar fasteners appropriate for the wall material.
4. Mount the enclosure to the wall. Ensure it is level and securely fixed.

5. Route the mains cable from the external switch or circuit breaker device through the most left M16 gland and the N₂O Wastewater Connector Unit cable through the next M16. Insert each cable and tighten the cap nut to 3.0 Nm. Note: reduce torque slightly if the cable jacket is soft, to avoid damaging insulation.

NOTE

Remove the protective sticker from the HMI touchscreen before first use.



Picture 3: Mounting of an N₂O Wastewater Operator Console

1.5.2 N₂O Wastewater Connector Unit

The N₂O Wastewater Connector Unit is plastic enclosure mounted in the field, close to the sensor installation points. It can be mounted on a boardwalk rail, wall, or pipe bracket.

1. Select location: within the reach of 1 or 2 N₂O Wastewater Sensors to be installed in the wastewater tank; accessible for DIP-switch configuration; protected from direct submersion.
2. Mount using multiple fixing holes on the enclosure. Use stainless steel fasteners.
3. **NOTE:** Make sure that the power is off to the N₂O Wastewater Operator Console.
4. Open the lid (four Phillips screws). Install the 4-wire power and communication cable coming from the N₂O Wastewater Operator Console through the M16 glands: one on each end of the N₂O Wastewater Connector Unit. Tighten the gland nuts to 3.0 Nm body / 3.0 Nm to seal. Leave unused ports sealed with preinstalled blanking plugs.

5. Connect the power and communication wires to the internal terminals. See wiring table:

Pair	Terminal	Function
Pair 1 – wire A	24V	24 VDC Power (+)
Pair 1 – wire B	GND	Power Ground (–)
Pair 2 – wire A	MOD A	RS485 Data A
Pair 2 – wire B	MOD B	RS485 Data B

6. The overall shield of the cable must be clamped using the cable mount cable clamp fitted at the cable entry point on the Connector Unit. Ensure the shield is making good metallic contact with the clamp. This provides mechanical strain relief and ensures the shield is properly anchored at the unit.



Picture 4: Mounting of an N₂O Wastewater Connector Unit

7. Set DIP switches before connecting sensors. Set Sensor Channel 1 address to 1 and Sensor Channel 2 address to 2. A diagram showing DIP positions is inside the lid. You can also see the diagram below:

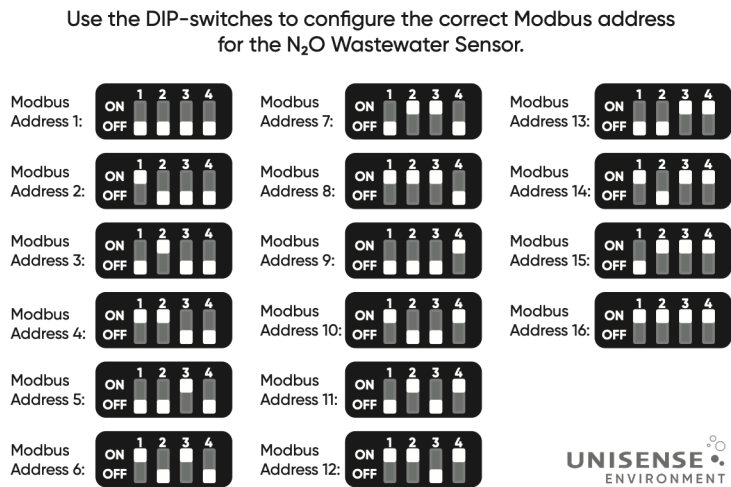
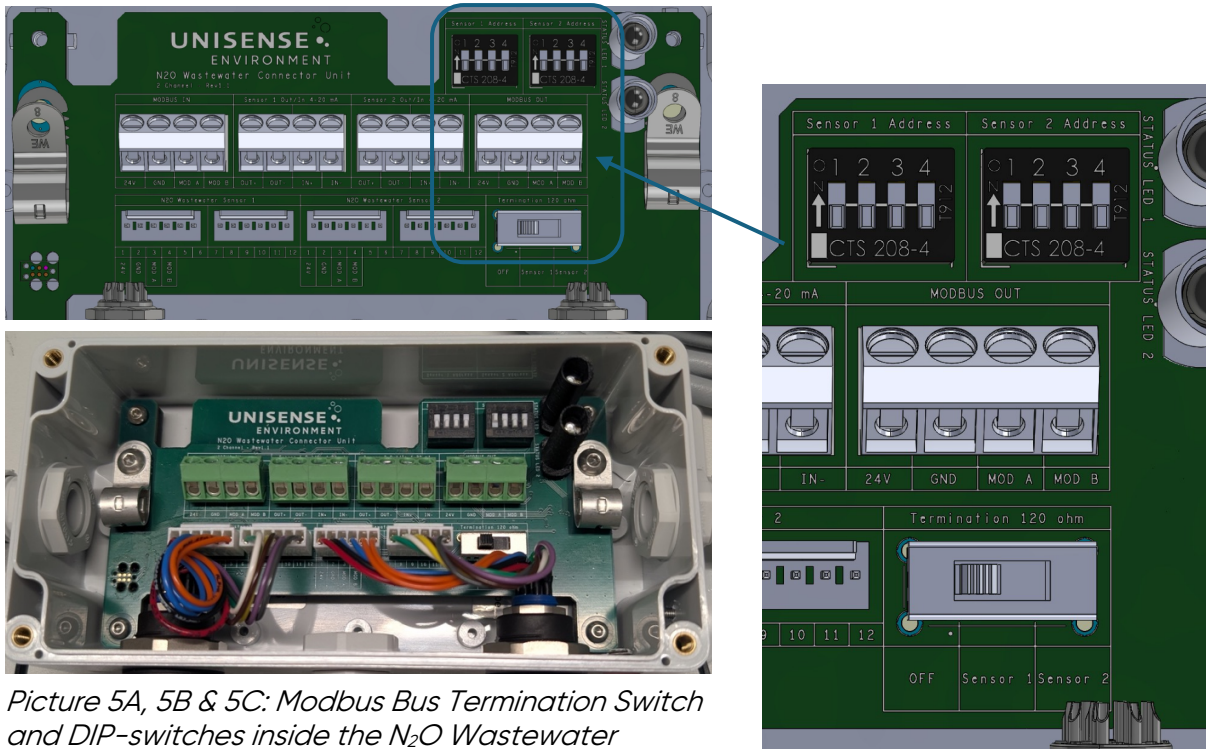


Figure 2: DIP-switch diagram

8. Set the **Modbus Bus Termination Switch**: termination must be enabled on the Connector Unit at the physical end of the Modbus line.

- 8.1. Set to Sensor 1 if only one sensor is connected, or
 - 8.2. Sensor 2 if two sensors are connected.
 - 8.3. Leave set to OFF on all previous Connector Units in the N₂O Wastewater Connector Unit.
9. Reapply the lid and tighten all four screws evenly.



Picture 5A, 5B & 5C: Modbus Bus Termination Switch and DIP-switches inside the N₂O Wastewater Connector Unit.

10. Fit a blanking plug to the Modbus OUT port if this is the last Connector Unit in the chain, to prevent water ingress.

1.5.3 N₂O Wastewater Sensor

The N₂O Wastewater Sensor is designed for permanent submersion in wastewater. The sensor body is made of anodized aluminium alloy. The sensor is delivered with a 7 m cable. Additional cable length up to 30 m per sensor is available as an option.

WARNING – Galvanic Corrosion

Do NOT fix screws or any kind of metal directly onto the N₂O Wastewater Sensor body. Metallic contact will damage the anodized surface protection through galvanic corrosion. Use only plastic fixings and spacers in contact with the sensor.

1. Verify sensor integrity before installation: inspect the body, sensor cap, O-rings and cable for damage. Ensure O-rings are correctly seated and lightly greased with Molykote 111 Compound. Never leave the N₂O Wastewater Sensor amplifier exposed without a N₂O Sensor Head or the supplied black closure cap – water ingress will damage the electronics.
2. Follow the guide in “N₂O Wasterwater Sensor Manual: 4. GETTING STARTED”. Find the manual at www.unisense-environment.com/manuals-3-0/.

IMPORTANT – Pre-polarization

When a sensor is first connected it automatically starts a 30-minute pre-polarization. The raw signal will rise quickly, then drop slowly. Wait until the raw signal is stable and below 2% before calibrating.

This may take up to 12 hours. Keep the sensor in a bucket of tap water during this time.

2. Safe Equipment Operation

This section provides guidance on the safe and correct operation of the system, including important safety statements, operator instructions, and an explanation of all symbols used on the equipment.

2.1 Intended Use

The N₂O Wastewater System is designed exclusively to measure dissolved nitrous oxide (N₂O) concentration in wastewater. The main application is measurement in the aerated or non-aerated liquid phase of activated sludge or other biological wastewater treatment processes.

WARNING – Protection Impairment

Using this equipment in a manner not specified by the manufacturer may impair the protection provided by the equipment.

Using the system for any purpose other than described above, or modifying it in any way not sanctioned by Unisense Environment A/S, may:

- Invalidate the product warranty and certification.
- Compromise electrical safety and ingress protection.
- Produce incorrect measurement results leading to unsafe process decisions.

If in doubt whether a particular use is within scope, contact Unisense Environment A/S before proceeding. E-mail: sales@unisense.com or tel: +45 8944 9500

2.2 Access to the Disconnecting Device

IMPORTANT

Do not position or install the N₂O Wastewater Operator Console in a way that makes it difficult to reach or operate the external disconnecting device.

The external circuit breaker or isolator switch (see Section 1.4) must remain freely accessible at all times.

In an emergency, an operator must be able to disconnect mains power quickly and without obstruction.

2.3 Symbols Used on the Equipment

The following symbols and markings appear on the product labels of each unit. All operators must be familiar with them before using the equipment.

Product label markings – all three units

N₂O Wastewater Operator Console: CE, CSA, FCC, UKCA, WEEE (crossed bin) ~AC 100–240V, 50–60Hz, 60W max

N₂O Wastewater Connector Unit: CE, CSA, FCC, UKCA, WEEE (crossed bin)

N₂O Wastewater Sensor – Digital: CE, CSA, FCC, UKCA, WEEE (crossed bin)

Manufacturer address (all units): Unisense Environment A/S · Langdyssen 5 · DK-8200 Aarhus N · Denmark

2.4 Starting Up the System

1. Ensure all enclosure lids are closed and locked, and that cable glands are tightened to specifications.
2. Operate the external disconnecting device to apply mains power.
3. The HMI touchscreen will show the startup screen. Wait for the system to fully boot.
4. Follow the guide in "N₂O WW Sensor Manual: 4. Connection of the N₂O Wastewater Sensor". Find the manual at www.unisense-environment.com/manuals-3-0/.

2.5 Risk of Burns – Hot Surface Warning

In accordance with safety standards, users are informed of the following burn risk:

CAUTION – Burn Hazard

The power supply unit (PSU) inside the N₂O Wastewater Operator Console and HMI components inside the Connector Unit may reach surface temperatures exceeding 60 °C during normal operation.

Risk reduction measures:

- Do not touch the PSU, DIN rail components or circuit boards without first isolating mains supply and allowing at least 5 minutes of cooling time.
- Use insulating gloves when handling internal components during service.
- Ensure adequate ventilation through the enclosure vents. Do not block the ventilation plug.
- Do not operate the console with the cabinet door open for extended periods.
- Do not place flammable materials near the Operator Console enclosure.

2.6 LED Status – Connector Unit

The status LED on each sensor channel of the Connector Unit indicates:

- Solid Green (1 second on power-up): Unit initialising.
- Blinking Blue (periodic): Normal operation – sensor communicating.
- Solid Red / No light: Fault condition. Check power and cable connections.
- LED sequence for calibration. Find the screenless calibration manual at www.unisense-environment.com/manuals-3-0/

2.7 Error State – Lost Sensor Communication

If a sensor loses communication, the HMI will display an error screen. Tap 'OK' and repeat the 'Add Sensor' procedure in the Menu. If the error persists, contact Unisense Environment.

3. Equipment Maintenance and Service

IMPORTANT – Service Restriction

Servicing the internal electronics, internal wiring and mechanical components of the Operator Console, Connector Unit and Sensor Body is restricted to trained service personnel authorised by Unisense Environment A/S.

If the equipment requires internal service or repair beyond the routine maintenance tasks described in Section 3.2, the equipment must be returned to Unisense Environment A/S.

Always contact Unisense Environment before returning equipment:

E-mail: sales@unisense.com | Tel: +45 8944 9500

Unisense Environment A/S · Langdyssen 5 · DK-8200 Aarhus N · Denmark

This section identifies the product-specific risks that service personnel may encounter, the protective measures to be applied, and the verification steps required after any repair.

3.1 Product-Specific Risks for Service Personnel

Trained service personnel must be aware of the following hazards specific to this product:

Risk	Protective Measures	Verification After Repair
Electric Shock – Mains Voltage (100–240 VAC) Hazardous mains voltage is present on the PSU input terminals and mains cable inside the Operator Console.	• Isolate mains supply at the external disconnect device before opening any enclosure. • Lock out / tag out the disconnect during service. • Verify absence of voltage with a multimeter before touching mains terminals. • Use insulated tools rated for the supply voltage.	• Re-check all mains terminal connections for correct wiring and secure termination. • Verify PE conductor continuity to enclosure metalwork. • Apply power and verify normal startup before closing enclosure.
Electric Shock – 24 VDC Bus The PSU output and the N ₂ O Wastewater Sensor cable carry 24 VDC. Contact may cause startle reflex and secondary injury.	• Treat 24 VDC rails as live until confirmed isolated. • Prefer isolating mains supply rather than disconnecting 24 V wiring under load.	• Inspect all 24 V connections after re-assembly. • Verify 24 V rails with multimeter before reconnecting sensors.
Hot Surfaces – Burn Hazard PSU and HMI components may reach >60 °C during operation.	• Allow at least 5 minutes cooling after isolating mains before touching components. • Use insulating gloves when handling PSU and circuit boards.	• Confirm ventilation plug is in place and enclosure vents are not obstructed.

Chemical / Biological Exposure – Sensor from Wastewater Sensors recovered from wastewater may carry pathogens, H ₂ S or corrosive chemicals.	• Wear chemical-resistant gloves and eye protection. • Rinse sensor with clean water before bringing indoors. • Work in a ventilated area.	• Rinse sensor body with clean water. • Inspect O-rings and cable gland before re-deployment. • O-rings seated and greased (Molykote 111); gland tight.
Weather protection – Incorrect Reassembly Failing to correctly refit lids, O-rings and cable glands after service can result in water ingress and electrical hazard.	• Inspect all O-rings before reassembly and replace if damaged. • Grease all O-rings with Molykote 111. • Tighten lid screws evenly in a cross pattern. • Tighten cable glands to 3.0 Nm	• Visual inspection of all seals and glands after reassembly. • Confirm all lid screws are engaged and tightened.

3.2 Routine Maintenance

The following routine tasks may be performed by operators without requiring return to Unisense. For all other internal service, see the restriction notice at the start of this section.

Interval	Task	Notes
Weekly	Inspect sensor securing net and cable	Check for fouling or mechanical damage. Rinse with clean water if heavily fouled.
Monthly	Inspect sensor O-rings (body cap and PCB insert)	Replace if deformed or damaged. Re-grease with Molykote 111 Compound.
Monthly	Verify LED status – Connector Unit	Both active channels should show periodic blue blink. Investigate any fault indication.
Bi-monthly	Sensor calibration	Calibrate using the N ₂ O Calibration Kit or equivalent. Required every 2 months or if process temperature changes >3 °C.
Quarterly	Inspect cable glands and enclosure seals (all units)	Re-tighten loose glands to 3.0 Nm. Replace damaged gland seals.
Annually	Electrical safety check	Verify PE continuity, insulation resistance, and correct function of the external disconnect device.
As required	Sensor Head replacement	Replace the N ₂ O Wastewater Sensor Head per the Step-by-Step Sensor Head Replacement Guide. Typical lifetime: 6 months. Sensor Heads are made to order – contact sales@unisense.com .
As required	Firmware update	Contact Unisense Environment A/S for approved firmware releases and update procedure.

3.3 Sensor Head Replacement

The N₂O Wastewater Sensor Head has a guaranteed lifetime of 4 months and a typical lifetime of 6 months. To maintain continuous data, Unisense Environment recommends replacing the Sensor Head every 6 months. Sensor Heads cannot be stored and are made to order – contact sales@unisense.com to arrange replacement.

IMPORTANT

Never leave the Sensor Body exposed without a Sensor Head or the supplied black closure cap.

Alternatively, cover with a waterproof plastic bag. Water intrusion will damage the electrical connections.

Follow the Step-by-Step Guide: N₂O Wastewater Sensor Head Replacement (included in the product documentation package and available at www.unisense-environment.com/manuals-3-0/).

3.4 Verification of Safe State After Repair

After any service that involved opening an enclosure or disturbing wiring, complete the following checklist before returning the system to service:

Post-Repair Verification Checklist

- ☐ All enclosure lids are closed and all screws are tightened.
- ☐ All cable glands are correctly tightened around cables (3.0 Nm); unused glands are sealed.
- ☐ Mains PE conductor is connected and continuity to enclosure metalwork is confirmed.
- ☐ Mains live and neutral are correctly wired.
- ☐ 24 V terminal connections on PSU and Connector Unit are secure.
- ☐ No tools or foreign objects left inside enclosures.
- ☐ External disconnect device operates correctly.
- ☐ On power-up: HMI displays startup screen; Connector Unit LED indicates normal status.
- ☐ Sensor communication confirmed on HMI (active channels).
- ☐ Sensor readings within expected calibrated range.

NOTE – Return to Service

The system must not be returned to service unless all items on the checklist above are confirmed.

Record the date of service, work performed, technician name and checklist completion in the maintenance log.

Appendix A – Technical Specifications

A.1 N₂O Wastewater Operator Console

Parameter	Specification
Model/Maker	Schneider Electric ABLM1A24025 AC/DC PSU
Material / Enclosure	Stainless steel cabinet (designed for IP66)
Dimensions & Weight	300 mm × 300 mm × 150 mm (L × W × D), 6.5 kg
Supply Voltage	AC 100–240 V ±10%, 50–60 Hz
Max. Power Consumption	60 W
Internal Bus Voltage	24 VDC (PSU output)
Communication (field)	ModbusRTU Master to Connector Units and Sensors
SCADA Output	4–20 mA analog; Modbus TCP/IP (default); optional Profibus-DP or ModbusRTU Slave
Sensor Support	Up to 16 N ₂ O Wastewater Sensors via up to 8 Connector Units
Sensor Cable	2×2×0.5 mm ² twisted pair OS for ≤100 m; 2×2×0.75 mm ² OS for ≤200 m

A.2 N₂O Wastewater Connector Unit

Parameter	Specification
Material / Enclosure	Surface-mounted ABS plastic case (designed for IP66)
Dimensions & Weight	150 mm × 100 mm × 60 mm (L × W × D), 0.5 kg
Power Supply	24 VDC, 2.5 A from N ₂ O Wastewater Operator Console
Communication	ModbusRTU (Master & Slave) – Console and Sensor
N ₂ O Sensor Channels	2 per unit (Binder connector)

A.3 N₂O Wastewater Sensor (Digital)

Parameter	Specification
Material	Anodized aluminium alloy body (6063-T6) and black POM acetyl copolymer
Dimensions & Weight	60 mm × 390 mm (D × L), 1.2 kg
Ingress Protection	Designed for IP68 – permanent submersion
Power Supply	24 VDC from Connector Unit
Communication	ModbusRTU (Slave)
Measurement Method	Electrochemical, Clark-type

Measuring Range	Standard: 0–1.5 mg N ₂ O-N/L Medium: 0–9 mg N ₂ O-N/L High: 0–110 mg N ₂ O-N/L
Detection Limit	Standard: 0.005 mg N ₂ O-N/L Medium: 0.03 High: 0.4
Response Time	<65 seconds
Sensor Head Lifetime	>6 months (typical); guaranteed 4 months
Sensor Head Temp. Range	Standard head: 0–27 °C High-temperature head: 27–40 °C
Cable (standard)	7 m attached cable; up to 30 m total with optional extension

A.4 System Certifications

Parameter	Specification
Certificates	CE, FCC, CSA, UKCA, CB certificate (certifications pending)
Safety	Safety Assessment per IEC 61010-1
Environmental	REACH / RoHS Conformity

Appendix B – Manufacturer & Contact Information

If you encounter any problems, need technical assistance, or need to return equipment, please contact:

Parameter	Specification
Company	Unisense Environment A/S
Address	Langdyssen 5, DK-8200 Aarhus N, Denmark
E-mail	sales@unisense.com
Tel	+45 8944 9500
Website	unisense-environment.com
Support	We strive to respond to all inquiries within one working day.

NOTE – Returning Equipment

Always contact Unisense Environment before returning any equipment for service or repair.

Equipment must be returned in the original packaging or equivalent protective packaging.

Contact sales@unisense.com for a return authorisation and shipping instructions.

Appendix C – Document Revision History

Rev.	Date	Author	Description
001	2026-06-02	Initial release	First issue – Installation, Operation and Maintenance documentation per IEC 61010-1

Appendix D – System setup and connections

