



Manual Turbidity Sensor GOT-PTU-8010



SENSTEX

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Preface

Thank you for choosing our turbidity sensor. Before installing or operating the product, please read this manual carefully and follow the recommended instructions. Proper use of the equipment will help prevent errors, damage, and unnecessary losses.

Important Notice

The information provided in this manual is intended to assist users with the correct installation and operation of the product. As the product may be improved or its functions updated from time to time, the contents of this manual may be revised without prior notice. We have made every effort to ensure that the information presented here is accurate and reliable. If you discover any errors, omissions, or unclear information, please contact us for assistance.

Warning : This product is not designed or approved for use in explosion-proof or hazardous areas.

Version

GOT-PTU-8010



Turbidity Sensor

Safety Precautions

To ensure safe and proper operation of this product, please carefully follow all safety instructions and precautions provided below.

About This Manual

- Please provide this manual to the equipment operator and ensure that it is available for reference.
- Before installing or operating the instrument, carefully read and understand all instructions and operating procedures described in this manual.
- This manual explains the functions and intended operation of the product. The company does not guarantee that the product will be suitable for every specific application or operating condition.

Precautions for Protection, Safety and Product Modification

- To operate this product and the systems connected to it safely, users must read and fully understand the instructions and proper application methods before putting the equipment into service. Improper operation or use outside the procedures specified in this manual may result in unnecessary damage or loss. If the instrument is used in a manner not described in this manual, its built-in protective functions may become ineffective. The company shall not be responsible for failures or accidents resulting from failure to follow the specified precautions.
- When installing lightning protection equipment for this product or its control system, or when designing and installing additional safety protection circuits, appropriate protection devices must be provided and installed separately as required.
- When replacing any component or part of the product, only use replacement parts that meet the model and specifications specified by the company.
- This product is not designed for applications directly associated with personal safety, including nuclear power equipment, radioactive equipment, railway systems, aviation equipment, marine equipment, or medical equipment. When the product is used in such applications, the user is responsible for providing additional equipment or safety systems necessary to ensure personal safety.
- Do not make any unauthorized changes or modifications to the product.

Safety Precautions

- **Hazard:** Indicates a dangerous condition that, if proper precautions are not taken, may result in serious personal injury, damage to the instrument, or significant property damage.
- **Warning:** Indicates important information or instructions that require particular attention regarding the product or a specific part of the operating procedure.



Safety and Operating Requirements

- Before switching on or operating the instrument, verify that the supplied power voltage matches the rated voltage specified for the product.
- Do not install or operate the instrument in areas where flammable, combustible materials, or steam are present.
- To reduce the risk of electric shock and operating errors, ensure that the equipment is properly grounded before use.
- Lightning protection and grounding systems must be properly maintained. The common grounding system should be connected to an appropriate electrical ground, shielding should be provided where required, wiring should be arranged properly, and suitable SPD surge protection devices should be installed.
- Certain internal components may contain high voltage. The front panel must not be opened by unauthorized personnel. Only company personnel or maintenance personnel approved by the company may open the panel to prevent electric shock.
- Always disconnect the electrical power supply before performing inspections, maintenance, or other checks on the instrument to prevent electric shock.
- Inspect the terminal screws regularly. If any terminal is found to be loose, tighten it securely before operating the instrument.
- Do not disassemble, modify, alter, process, or repair the product without proper authorization. Unauthorized work may cause abnormal operation, electric shock, fire, or other accidents.
- Clean the exterior of the product using a dry cotton cloth. Do not use alcohol, gasoline, or other organic solvents for cleaning. Keep all types of liquid away from the instrument and prevent liquid from splashing onto its surface.
- If the product accidentally falls into water or becomes submerged, disconnect the power supply immediately. Failure to do so may result in electrical leakage, electric shock, or even fire.

Safety Precautions

Safety Precautions

- Inspect the grounding and protective systems on a regular basis. If the grounding connection, fuses, or other safety protection measures are found to be unreliable or defective, do not operate the instrument until the issue has been resolved.
- Keep the ventilation openings of the instrument housing unobstructed at all times. Adequate ventilation helps prevent excessive heat, abnormal operation, premature component deterioration, and possible fire hazards.
- Follow the operating and safety instructions provided in this manual at all times. Failure to comply with the specified procedures may affect or damage the protective devices incorporated in the product.

Handling and Operating Precautions

- Inspect the instrument immediately after unpacking. Do not install or operate the product if it shows signs of damage, deformation, or other abnormal conditions.
- Keep foreign materials away from the inside of the instrument during installation. Dust, wire scraps, metal particles, and other debris may interfere with normal operation and could result in malfunction or equipment failure.
- Consider system safety before changing any operating parameters or functions. Changes to the configuration, signal output, start/stop operation, or other settings must be carried out carefully, as incorrect operation may cause malfunction or damage to the instrument and the equipment it controls.
- Perform regular maintenance on all components. Each part of the instrument has a limited service life, so periodic inspection, servicing, and repair are necessary to maintain reliable operation over an extended period.
- Dispose of the product appropriately when it is no longer usable. The instrument should be handled as industrial waste in accordance with applicable disposal requirements to minimize environmental pollution.
- Switch off the power when the instrument is not in use. This helps reduce unnecessary electrical risks and protects the equipment.
- Stop operation immediately if any abnormal condition occurs. If smoke, an unusual odor, abnormal sounds, or other unexpected symptoms are detected, turn off the power without delay and contact the company for technical assistance.

Warranty and Liability

- The company provides no warranty or guarantee for any conditions, applications, or circumstances that are not covered by the stated product warranty.
- The company shall not be held responsible for damage to the instrument, loss of components, or any direct or indirect losses resulting from improper use, incorrect operation, or misuse of the product by the user.

Package Contents

- Please check the items included in the package against the list below:

No.	Item	Quantity	Remarks
1	Turbidity Sensor	1	—
2	User Manual	1	—
3	Certificate	1	—

Package Inspection

- After unpacking the product, carefully verify that all items listed above are included before proceeding with installation or operation.
- If the supplied model or quantity does not match the order, or if any component shows visible damage or an abnormal physical condition, please contact the company for assistance before using the product.

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1. Product Specifications

The following table provides the main technical specifications of the turbidity sensor.
Table 1. Technical Specifications of the Turbidity Sensor

Specification	ReDetails marks
Measurement Range	0.01–3000 NTU
Measurement Accuracy	Less than $\pm 5\%$ of the measured value or ± 0.5 NTU, whichever is greater
Repeatability	$\pm 3\%$
Resolution	0.0 NTU, 0.1 NTU, depending on the measurement range
Pressure Range	≤ 0.4 MPa
Main Material	Body: SUS316L; Cable: PUR
Power Supply	9–36 VDC
Communication Protocol	MODBUS RS485
Storage Temperature	-15 – 50°C
Measuring Temperature	0 – 45°C (Non-freezing)
Weight	0.8 kg
Protection Rating	IP6
Cable Length	Standard: 10 m; maximum extension: 100 m

Note : Product specifications and technical parameters may be revised or updated without prior notice.

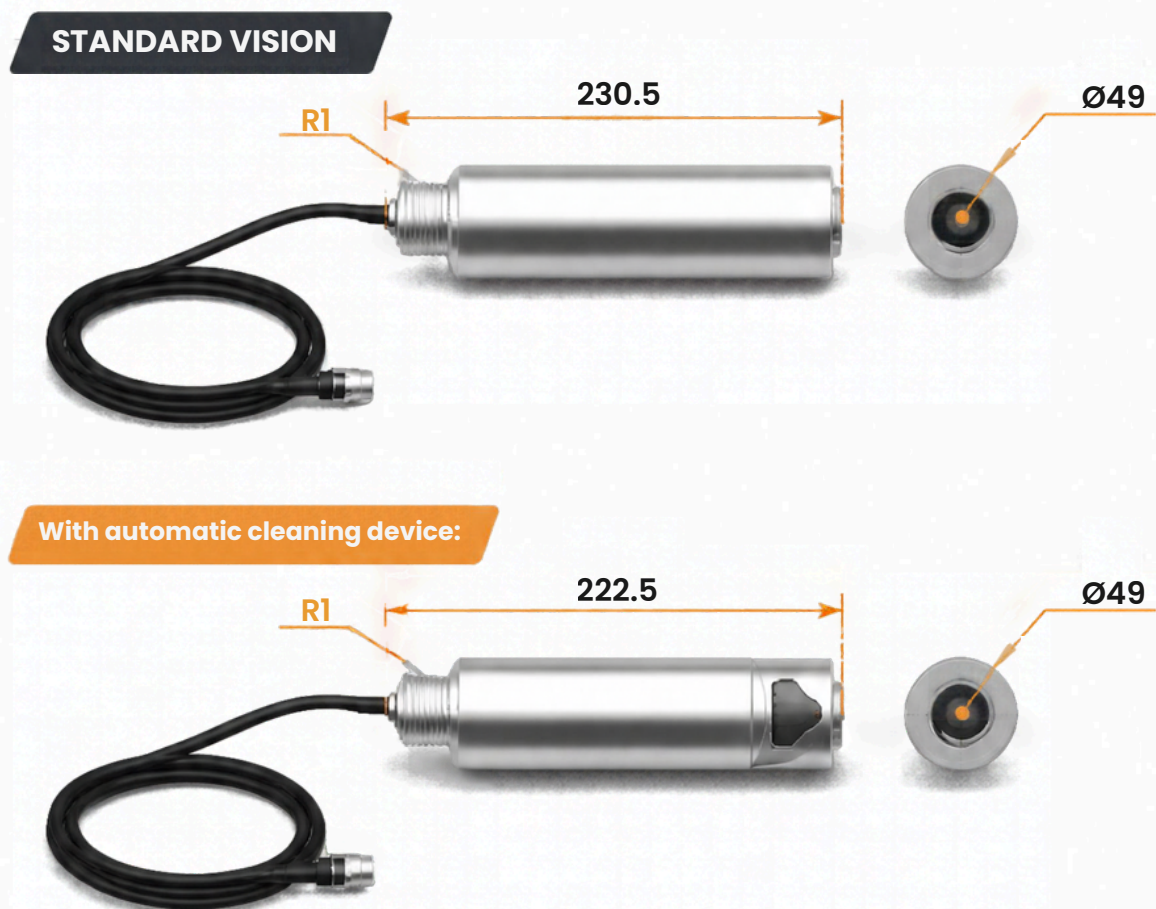
2. Product Overview

2.1 Product Information

The turbidity sensor operates using the infrared scattered-light measurement principle. During measurement, infrared light emitted by the internal light source passes through the sample. When the light encounters particles suspended in the sample, it is scattered. The amount of scattered light is related to the turbidity level of the measured sample. A scattered-light receiver is positioned at approximately 90° relative to the emitted light. The sensor determines the turbidity value by detecting and analyzing the intensity of the scattered infrared light received at this angle.

The sensor is designed for continuous, online turbidity monitoring and can be applied to water inlet monitoring, sedimentation monitoring in waterworks, sewage treatment facilities, industrial production processes, and wastewater treatment applications. The physical dimensions of the sensor are provided in Figure

1. Automatic Cleaning: Not equipped with an automatic cleaning device.



2. Product Overview

2.2 Safety Information

Before unpacking, installing, or operating the instrument, carefully read this manual in its entirety. Failure to follow the instructions may result in personal injury or damage to the equipment.

Warning Labels

- Read all safety labels and symbols displayed on the instrument before use. Follow the instructions associated with each label. Ignoring these safety indications may result in personal injury or equipment damage.
- Caution Symbol: When this symbol is displayed on the instrument, refer to the relevant operating or safety instructions in this manual before proceeding.
- Electrical Hazard Symbol: This symbol indicates the presence of an electrical shock hazard that may cause serious injury or pose a risk of fatal electric shock. Exercise appropriate caution when working with or around the equipment.
- Important Safety Notice: Read the entire manual carefully and pay close attention to all warnings, notes, and safety-related instructions. These requirements must be followed to ensure that the protective functions and safety measures provided by the equipment remain effective.

3.Installation

3.1. Installation of Sensors

3.1.1. Quick Dismantling Pool Side Fixed Installation



CBZJ-04

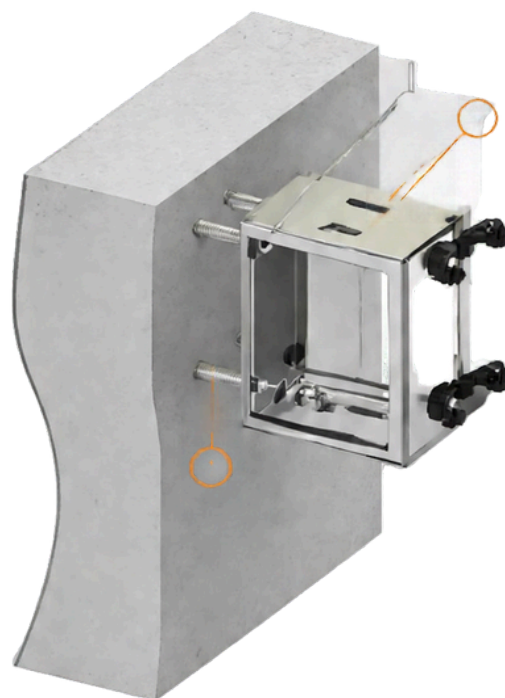


Fig. 2 Quick Dismantling Pool Side Installation Sketch Map (wall space)

Note: The vertical adapter and the horizontal adapter are sensor accessories, so the mounting part is not equipped with the adapter

num.	Part	Quantity	Comments
1	M8 expansion bolt	5 SETS	
2	Mounting plate	1 PCS	
3	Installation blockage	1 PCS	
4	Rubber ring	3 PCS	
5	Mounting tube (external thread at one end (SUS304))	1 PCS	
6	Mounting tube (External thread + internal thread (SUS304))	PCS	

3.Installation

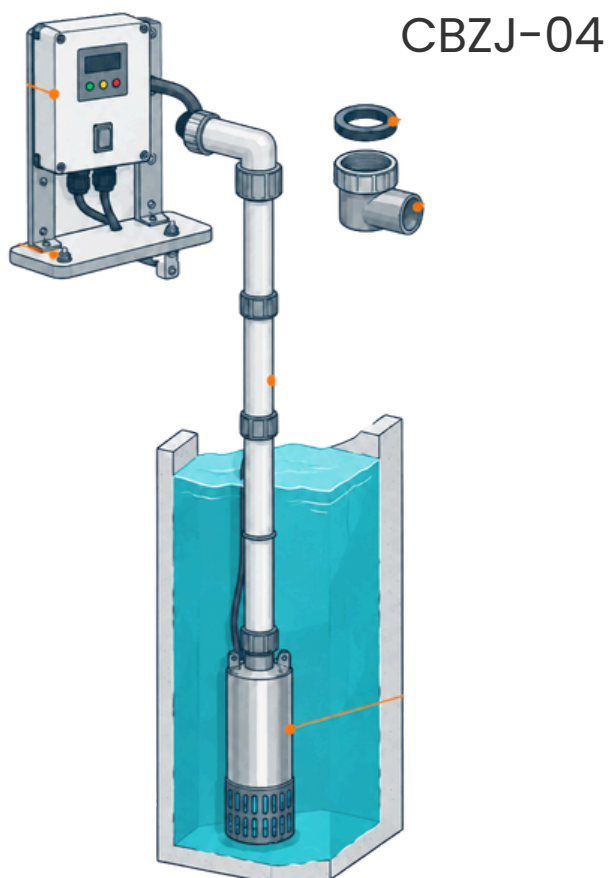


Fig. 3 Quick Dismantling Pool Side Installation Sketch Map (ground)

num.	Part	Quantity	Comments
1	M8 expansion bolt	5 SETS	
2	Mounting plate	1 PCS	
3	Installation blockage	1 PCS	
4	Rubber ring	3 PCS	
5	Mounting tube (external thread at one end (SUS304))	1 PCS	
6	Mounting tube (External thread + internal thread (SUS304))	PCS	

Note: The vertical adapter and the horizontal adapter are sensor accessories, so the mounting part is not equipped with the adapter

3.Installation

3.1.2. Classic Pool Side Fixed Installation

CBZJ-04

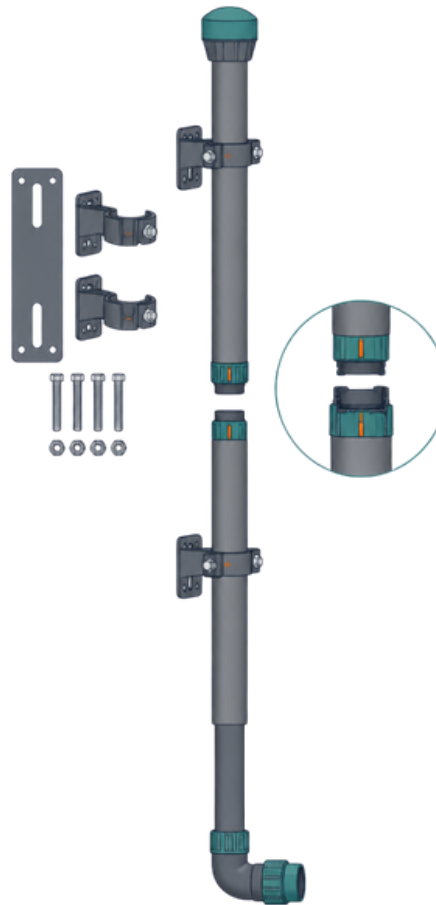


Fig. 4 Classic Pool Side Fixed Installation Sketch Map

No.	Part Description
1	M4 Expansion Anchor Bolt
2	Pipe Clamp, Ø40
3	Pipe End Cap
4	UPVC Pipe, DN32
5	M8 × 16 Bolt
6	M8 Hexagonal Nut
7	Rotary Union (R1 to R5)

3.Installation

3.1.3. Railing Fixed Installation

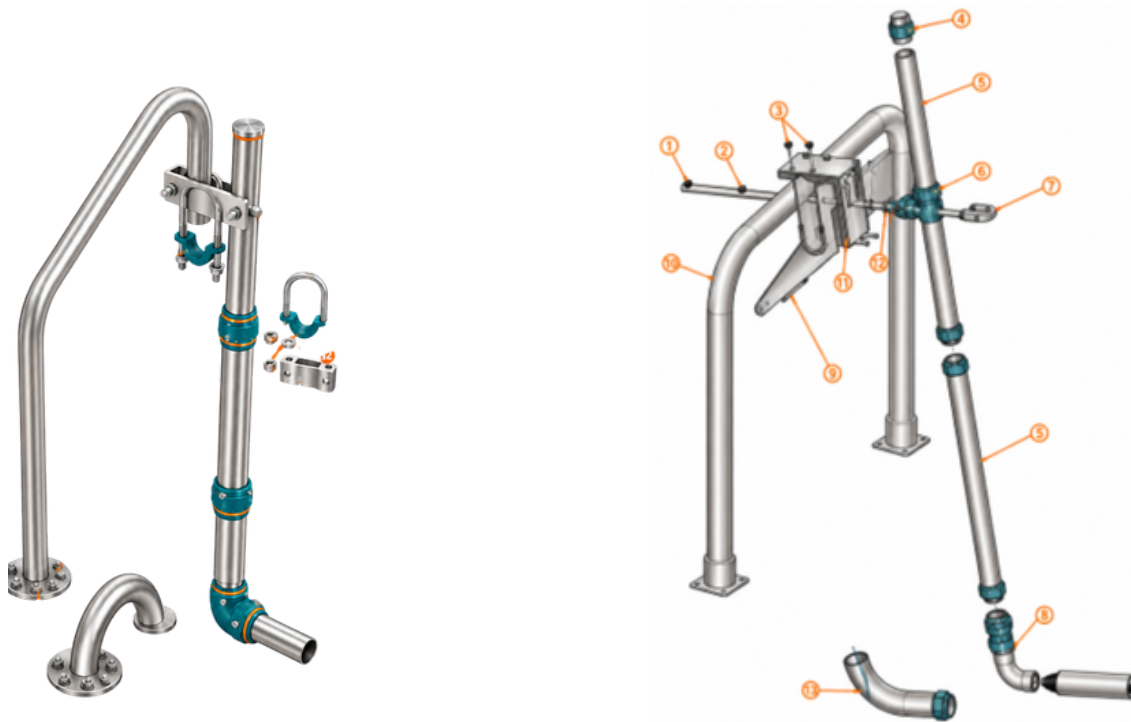


Fig. 5 Railing Fixed Installation Sketch Map

No.	Part Description
1	M8 Hex Nut
2	M8 Flat Washer
3	M8 Hexagonal Nut
4	Pipe End Cap
5	UPVC Pipe, DN32
6	Pipe Clamp
7	L-Type Pipe Hoop
8	Rotary Union (R1 to R5)
9	L-Type UPVC Pipe Hoop
10	M8 × 120 Bolt
11	Mounting Plate
12	M8 Flat Gasket
13	M8 Spring Washer

3.2. Connection of Sensor

Before connecting the sensor, verify each cable according to the wiring information below. Connect the power, communication, and grounding lines to their corresponding terminals as specified.

Serial No.	1	2	3	4	5
Cable Color	Red/Brown	Black	Blue	White	Yellow + Green
Connection / Signal	+12 VDC	AGND	RS485 A	RS485 B	GND/PE

4. Interface and Operation

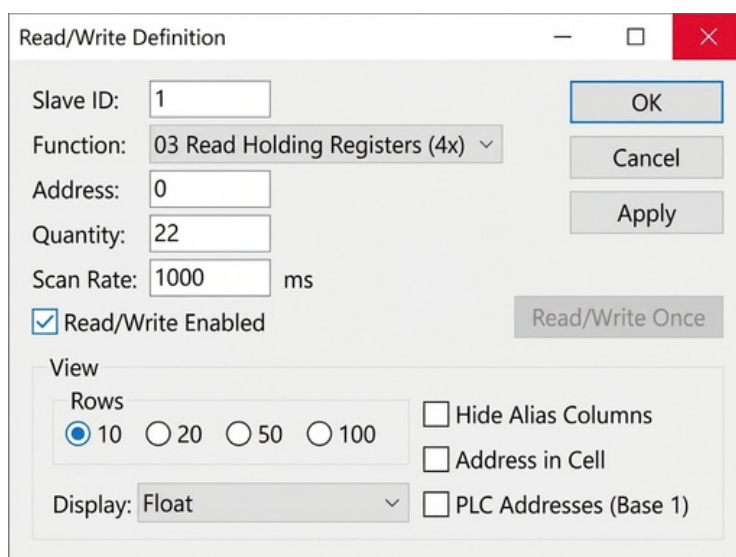
4.1 User Interface

The sensor can be linked to a computer through an RS485-to-USB converter. Once the connection has been established, use Modbus Poll to communicate with and access the sensor.

Note: Modbus Poll is a general-purpose software application that can be obtained online.

4.2 Parameter Setting

1. From the menu bar, select "Setup", then choose "Read / Write Definition". Configure the required parameters. For the initial setup, enter the slave address shown on the sensor label as the slave address. After completing the settings, click "OK" to confirm.



Read/Write Definition

Slave ID: 1

Function: 03 Read Holding Registers (4x)

Address: 0

Quantity: 22

Scan Rate: 1000 ms

☒ Read/Write Enabled

☐ Read/Write Once

View

Rows: ☒ 10 ☐ 20 ☐ 50 ☐ 100

☐ Hide Alias Columns

☐ Address in Cell

☐ PLC Addresses (Base 1)

Display: Float

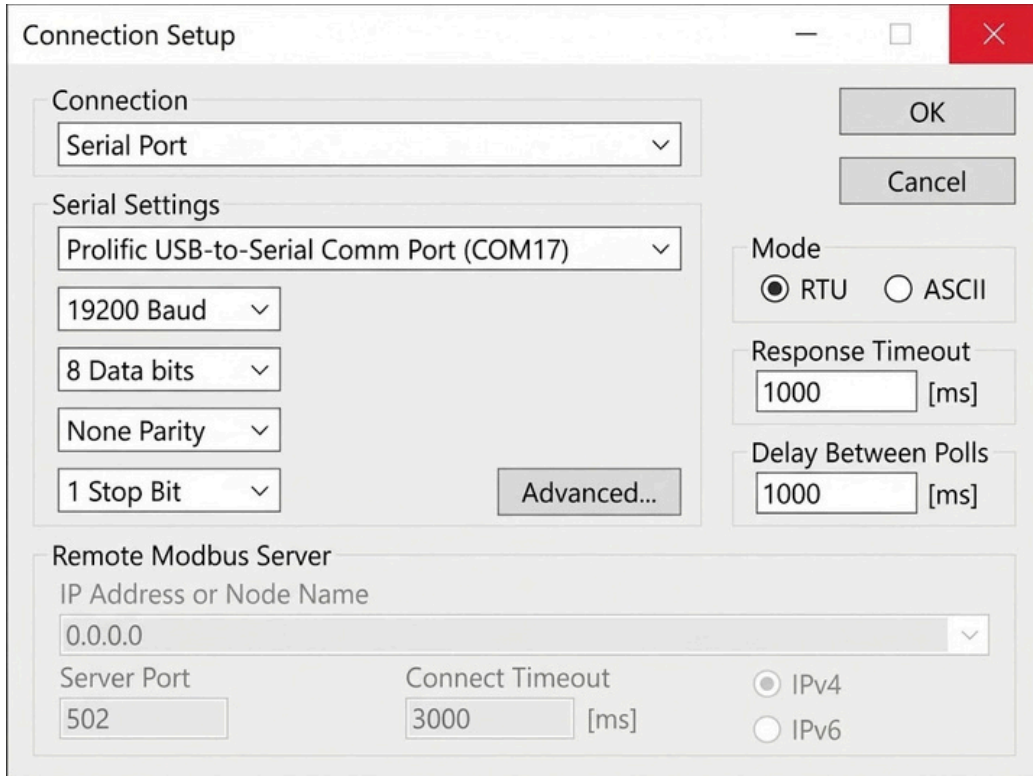
OK Cancel Apply

Fig 6

Note : Once the slave address has been updated, the newly assigned address will take effect immediately for communication. The same address will also be used when establishing the next connection with the sensor.

4. Interface and Operation

2. Open the "Connection" menu from the menu bar and select "Connection setup" from the drop-down list. For the initial configuration, enter the slave address indicated on the sensor label. Then click "OK" to confirm the connection settings.



The screenshot shows the "Connection Setup" dialog box with the following settings:

- Connection:** Serial Port (selected in the dropdown)
- Serial Settings:**
 - Port: Prolific USB-to-Serial Comm Port (COM17) (selected in the dropdown)
 - Baud: 19200 Baud (selected in the dropdown)
 - Data bits: 8 Data bits (selected in the dropdown)
 - Parity: None Parity (selected in the dropdown)
 - Stop Bit: 1 Stop Bit (selected in the dropdown)
 - Advanced... button is visible
- Mode:** RTU (selected with a radio button), ASCII (unselected)
- Response Timeout:** 1000 [ms]
- Delay Between Polls:** 1000 [ms]
- Remote Modbus Server:**
 - IP Address or Node Name: 0.0.0.0 (selected in the dropdown)
 - Server Port: 502
 - Connect Timeout: 3000 [ms]
 - Protocol: IPv4 (selected with a radio button), IPv6 (unselected)

Buttons: OK, Cancel

Fig 7

Note 1: Select the appropriate Port based on the port number assigned to the connection.

Note 2: If the sensor has been connected according to the procedure above, but the software still shows "Timeout Error" under "Display status", the connection may not have been established correctly. In this case, disconnect the USB connection and reconnect it, or replace the USB-to-RS485 converter if necessary. Then repeat the connection procedure until the sensor is successfully detected and communication is established.

5. Calibration of Sensor

The turbidity sensor is factory-calibrated before delivery. If necessary, the calibration can be performed again by following the procedure described below.

A suitable turbidity standard solution is required for calibration. During the calibration process, ensure that the sensor lens is positioned approximately 15 cm above the bottom of the calibration cup and remains away from the liquid surface. To minimize interference from external light, it is recommended to perform the calibration with the calibration cup protected from direct light.

5.1 Factor Calibration

Factor calibration should be performed when there is a significant difference between the sensor's measured result and the value of the standard solution, indicating that the slope of the calibration curve requires adjustment.

Calibration Procedure

1. Connect the turbidity sensor to the Modbus software.
2. Configure the required parameters and clean the sensor before starting the calibration process.
3. Select "16" and enter "04" in the Address field of the dialog box. Set "2" for Quantity, then change the data type to "Float CD AB". Double-click the input area on the right and enter "1" as the value. Click "OK", followed by "Send", as illustrated in the following example. Carefully place the sensor into the turbidity standard solution, lowering it slowly to avoid disturbing the measurement conditions.

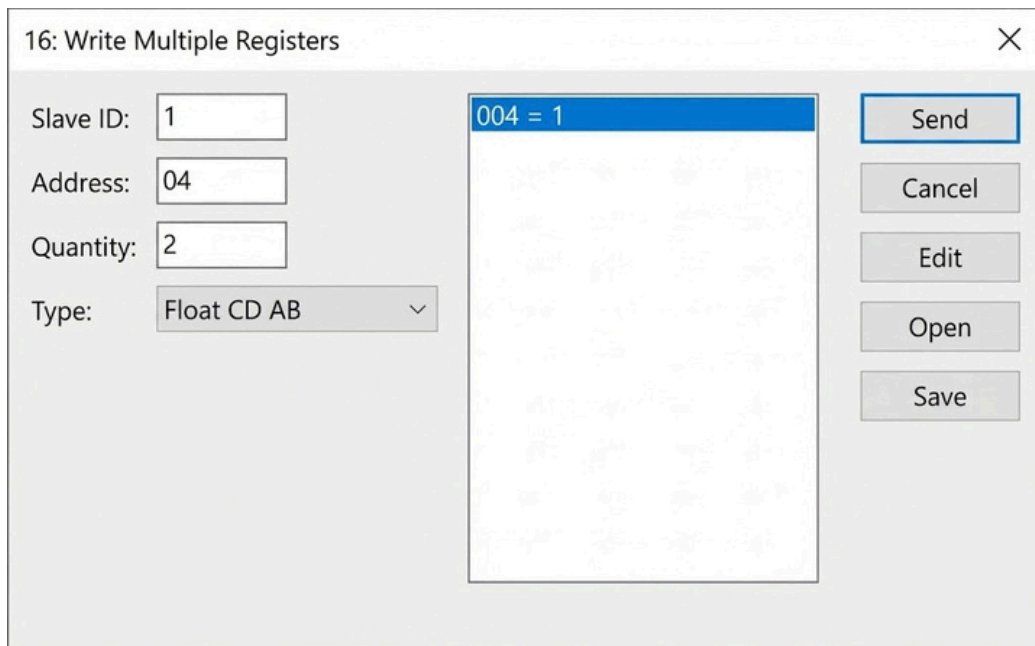


Fig 8

5. Calibration of Sensor

4. Allow the reading to settle until a stable value is obtained. Record the stabilized measurement for use in the calculation.

5. Determine the correction factor using the standard solution value and the stable sensor reading. The factor is calculated as follows:

6. $\text{Factor} = \text{Standard Solution Value} / \text{Stable Measured Value}$

7. Return to the dialog box and select "16". Enter "04" in the Address field and set "2" as the Quantity. Change the data type to "Float CD AB". Double-click the input field on the right and enter the "Factor Value" calculated in Step 6. Click "OK", then select "Send" to apply the new factor.

Example:

If the correction factor obtained from Step 6 is 1.02, enter 1.02 as the Factor Value, as illustrated in the figure below.

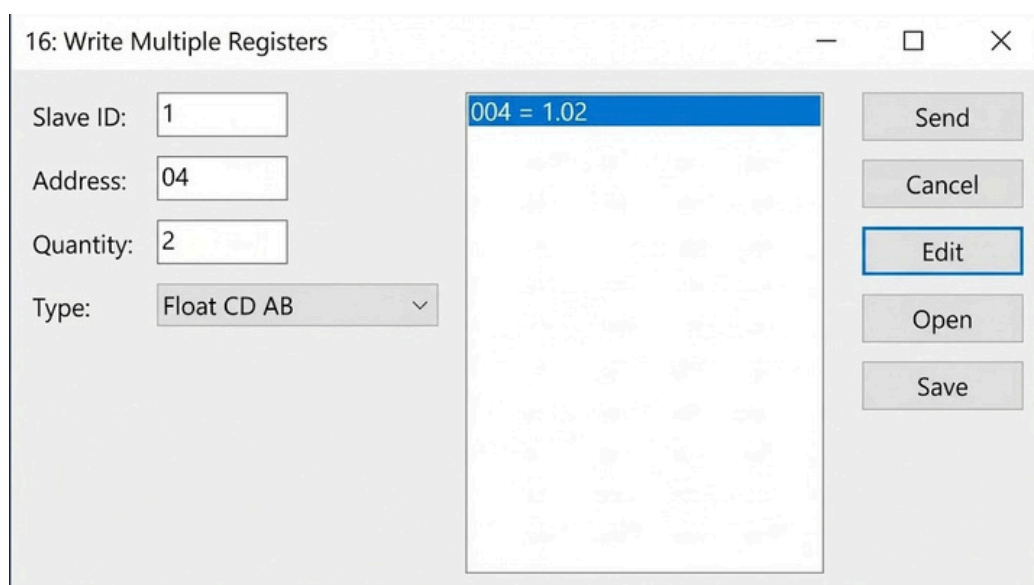


Fig 9

5. Calibration of Sensor

Data Monitor - Modbus Viewer

Tx = 253: Err = 11: ID = 1: F = 03: SR = 1000ms

	Alias	00000	Alias	00010	Alias	00020
0	Turbidity	803.158		0	Manual Brushing Order	0
1		--	Brushing Time	1	Automatic Brushing Order	0
2		338	Response Time	3		0
3		--	Turbidity	1		--
4	Turbidity Factor	1.02	Sensor Humidity	4		0
5		--		0		--
6		0	Sensor Baud Rate	2		0
7		--	Sensor Slave Address	1		--
8	Turbidity Deviation	0	Serial No. 1	2699		0
9		--	Serial No. 2	400		--

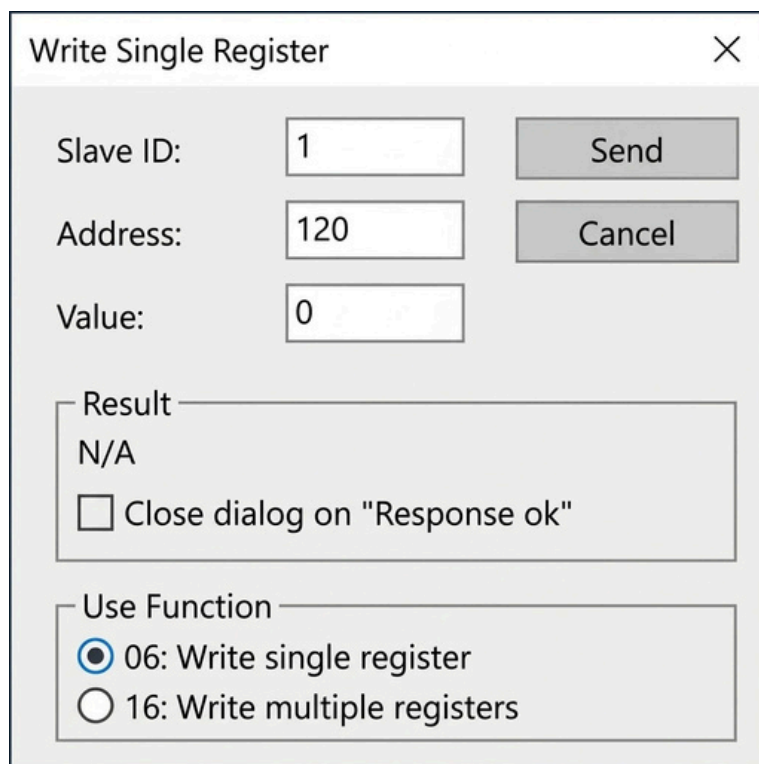
Fig 10

5.2 Standard Solution Calibration

When the sensor reading differs significantly from the reference value of the standard solution, the turbidity calibration should be performed again. Follow the procedure below.

1. Connect the sensor to the Modbus software and establish communication with the device.
2. Prepare the sensor for calibration. Configure the required parameters, set the turbidity factor to 1, and clean the sensor surface before proceeding.
3. Begin the calibration process. Slowly immerse the sensor into the distilled water. In the dialog box, select "06", enter "120" in the Address field, and set the Value to "0". Click "Send" to apply the setting. The measurement channel will automatically change to Channel 4. Wait until the average AD value becomes stable before continuing, as illustrated in the figure below.

5. Calibration of Sensor



Write Single Register

Slave ID:

Address:

Value:

Result
N/A

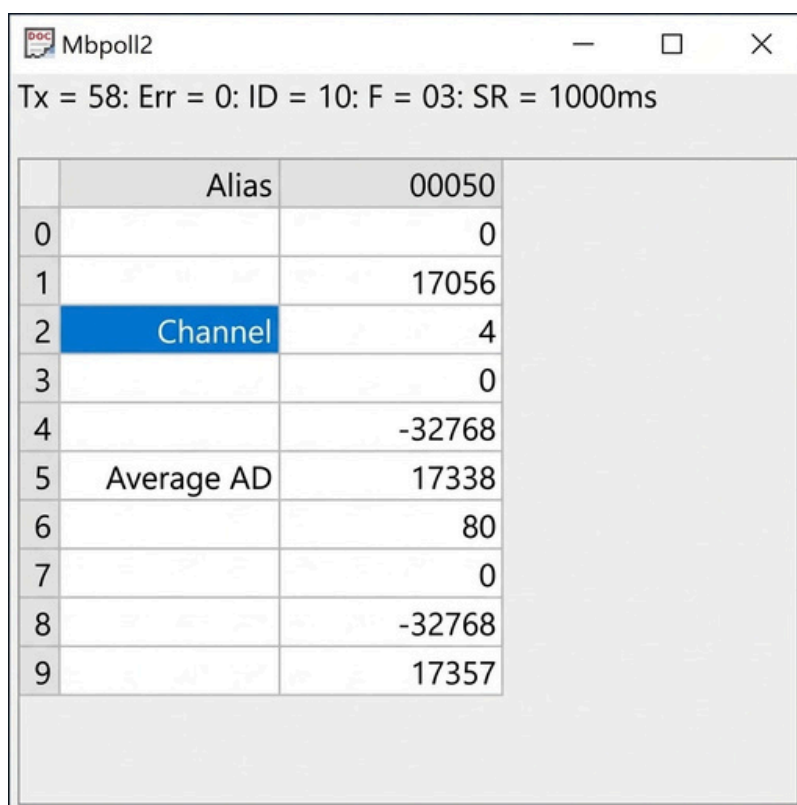
☐ Close dialog on "Response ok"

Use Function

☒ 06: Write single register

☐ 16: Write multiple registers

Fig 11



Mbpoll2

Tx = 58: Err = 0: ID = 10: F = 03: SR = 1000ms

	Alias	00050
0		0
1		17056
2	Channel	4
3		0
4		-32768
5	Average AD	17338
6		80
7		0
8		-32768
9		17357

Fig 12

5. Calibration of Sensor

4. To perform the dark value calibration, select "06", set the Address field to "120" and the Value field to "1" in the popup dialog box, and then click "Send" to finalize the process.

Write Single Register

Slave ID: 1 Send

Address: 120 Cancel

Value: 1

Result
N/A
☐ Close dialog on "Response ok"

Use Function
☒ 06: Write single register
☐ 16: Write multiple registers

Fig 13

5. Carefully immerse the sensor into Turbidity Standard Solution 1 (distilled water). The recommended turbidity range for Standard Solution 1 is 0.1–5 NTU. Select "16", then enter "66" in the Address field of the dialog box. Set the Quantity to "2" and change the data type to "Float CD AB".

Allow the sensor reading to stabilize. Once the value remains steady, double-click the up arrow on the right and enter "turbidity standard solution 1" in the value field. Click "OK", followed by "Send".

Finally, check the displayed turbidity value. If the measured value adjusts and becomes consistent with the turbidity level of Standard Solution 1, the first calibration point has been completed successfully.

5. Calibration of Sensor

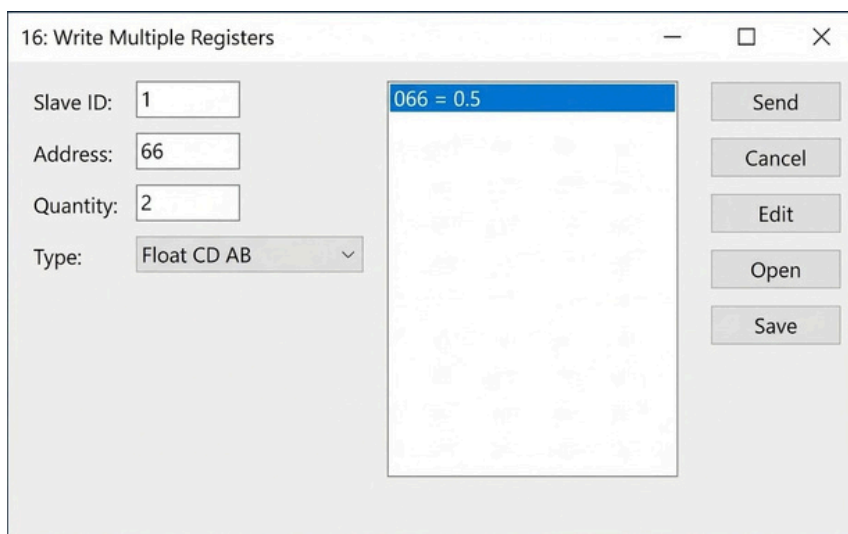


Fig 14

Data Monitor - Modbus Viewer

Tx = 7558: Err = 3019: ID = 1: F = 03: SR = 1000ms

	Alias	00000	Alias	00010	Alias	00020
0	Turbidity	0.5		0	Manual Brushing Order	0
1		--	Brushing Time	1	Automatic Brushing Order	0
2		340	Response Time	3		0
3		--	Turbidity	1		--
4	Turbidity Factor	1	Sensor Humidity	4		0
5		--		0		--
6		0	Sensor Baud Rate	2		0
7		--	Sensor Slave Address	1		--
8	Turbidity Deviation	0	Serial No. 1	2699		0
9		--	Serial No. 2	400		--

Fig 15

6. Clean the sensor thoroughly before proceeding. Gently place the sensor into Turbidity Standard Solution 2. The recommended turbidity range for this solution is 500–800 NTU.

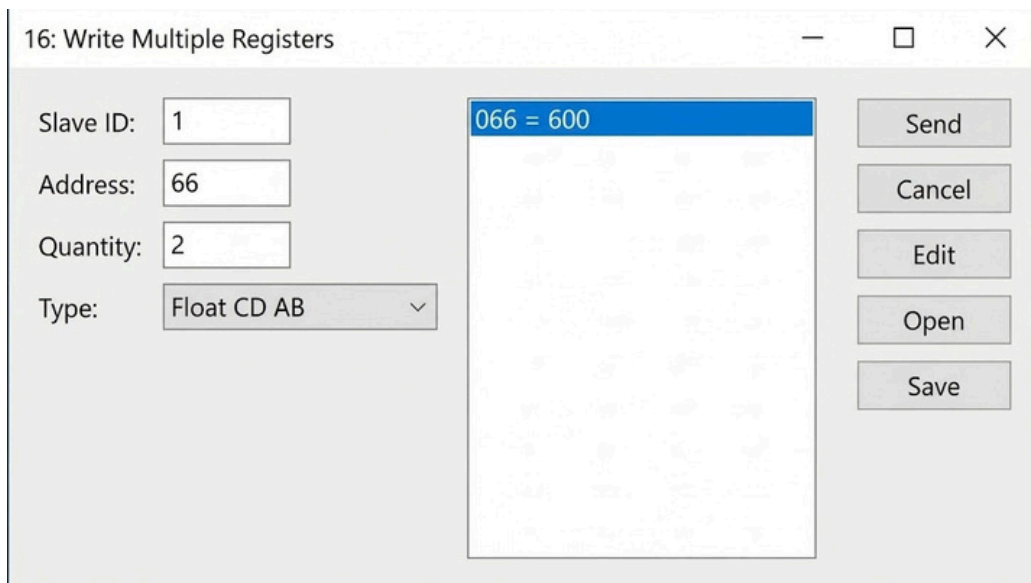
Next, select "16" and enter "66" in the Address field. Set Quantity to "2" and choose "Float CD AB" as the data type.

Allow the reading to settle until the displayed value becomes stable. Then, double-click the up arrow on the right and enter "turbidity standard solution 2" in the corresponding value field.

5. Calibration of Sensor

To finalize your entry, simply click the "OK" button and follow up by clicking "Send" to transmit the data.

Carefully monitor the primary turbidity reading; if this displayed value updates to match the exact value of your second turbidity standard solution, it confirms that the second calibration point has been successfully completed, as illustrated in the example below.



16: Write Multiple Registers

Slave ID:

Address:

Quantity:

Type:

066 = 600

Send

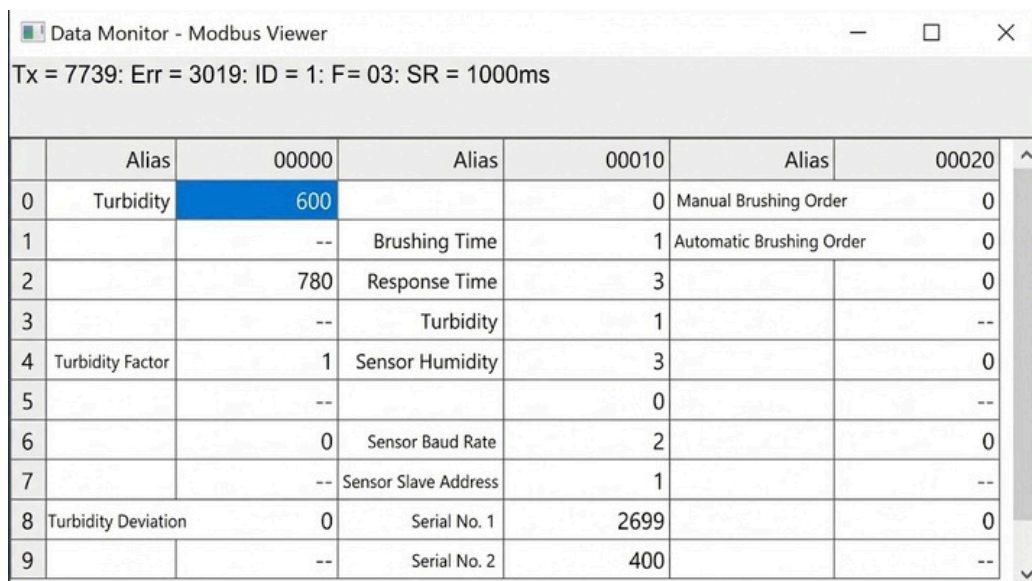
Cancel

Edit

Open

Save

Fig 16



Data Monitor - Modbus Viewer

Tx = 7739: Err = 3019: ID = 1: F= 03: SR = 1000ms

	Alias	00000	Alias	00010	Alias	00020
0	Turbidity	600		0	Manual Brushing Order	0
1		--	Brushing Time	1	Automatic Brushing Order	0
2		780	Response Time	3		0
3		--	Turbidity	1		--
4	Turbidity Factor	1	Sensor Humidity	3		0
5		--		0		--
6		0	Sensor Baud Rate	2		0
7		--	Sensor Slave Address	1		--
8	Turbidity Deviation	0	Serial No. 1	2699		0
9		--	Serial No. 2	400		--

Fig 17

6. General Maintenance Procedures

To consistently achieve the most accurate and reliable measurement outcomes, it is absolutely essential to establish a routine maintenance schedule for your sensor, which primarily consists of thoroughly cleaning the components, diligently inspecting the device for any structural damage, and performing regular calibrations while simultaneously evaluating the sensor's overall operational status.

6.1 Guidelines for Cleaning the Sensor: Depending on your specific usage environment, it is highly critical to routinely clean and preserve both of the optical lenses located on the sensor to maintain peak measurement accuracy by initially rinsing the lenses with pure water, followed by meticulously wiping the surfaces with a specialized cleaning solution and a soft cloth to effectively eradicate any stubborn residues.

6.2 Evaluating the Sensor for Physical Damage: Users should consistently conduct visual examinations of the sensor's exterior housing to detect any signs of physical wear, and if any damage is identified, it is imperative to immediately contact the after-sales service department for a prompt replacement to prevent internal malfunctions from water infiltration, while also keeping in mind the strong recommendation to replace the protective sealing ring annually.

6.3 Procedure for Replacing the Sensor Blade: To ensure continuous efficiency, the manufacturer advises swapping out the sensor's rubber blade for a completely new unit every quarter by following a straightforward process: first, locate the blade as depicted in the reference diagram, then carefully remove the existing rubber sheet from the scraper assembly, thoroughly apply a suitable lubricant directly onto the supporting bracket, and finally, securely mount the brand-new rubber sheet into its proper position.

7. Communication Protocol

To fully utilize the device's integrated MODBUS RS485 communication capabilities, users are highly encouraged to consult section 3.2 of this comprehensive manual, which provides detailed instructions and essential guidelines regarding the proper communication wiring setups.

MODBUS-RTU	
Baud Rate	4800/9600/19200/38400
Data Bits	8 bit
Parity Check	no
Stop Bit	1bit

Register Name	Address Location	Read/Write	Data Type	Register Number	Descriptions
Turbidity	0	OR	Float	2	0- Range
Turbidity Factor	4	RW	Float	2	0.1-9.99
Turbidity Deviation	8	RW	Float	2	$\pm 80\%$ FS NTU
Brushing Time	11	OR	Int	1	
Manual brushing time command	20	W	Int	1	Send 66
Automatic brushing time command	21	W	Int	1	Send interval (unit: min)
Response Time	12	RW	Int	1	3-60s

7. Communication Protocol

Sensor Humidity	14	OR	Int	1	It is recommended to be less than 10
Sensor Baud Rate	16	RW	Int	1	0 stands for 4800 1 stands for 9600 2 stands for 19200 3 stands for 38400
Sensor Slave Address	17	RW	Int	1	1-200
Serial No. 1	61400	OR	Int	1	First 4 numbers of Serial No.
Serial No. 2	61401	OR	Int	1	Median 4 number of Serial No.
Calibration of Sensor					
First Factor	60	RW	Float	2	
Second Factor	62	RW	Float	2	
The Standard Value (First Point And Second Point)	66	RW	Float	2	For the first calibration point, it is recommended to select a standard solution within the range of 50–100 NTU. For the second calibration point, it is recommended to select a standard solution within the range of 2000–2500



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