

Recorder Flow Pressure Temp Analyzer Level

Datasheet Turbidity Electrode GOT-PTU-8010



SENSTEX

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Datasheet**Turbidity Electrode
GOT-PTU-8010****Product Description**

GOT-PTU-8010 is a Turbidity Electrode designed for online turbidity measurement in water. It utilizes Infrared Absorption and Scattered Light technology in accordance with the ISO 7027 standard.

The sensor emits infrared light into the measured liquid. When the light interacts with suspended particles, scattering and absorption occur. The sensor detects changes in light intensity and analyzes the signal to determine turbidity or sludge concentration.

Applications

- Online turbidity monitoring of water
- Industrial production processes
- Wastewater treatment processes
- Online monitoring in wastewater treatment plants

Features

- High Precision Measurement
- Wide Measurement Range
- ISO 7027 Compliant
- Stable and Reliable Performance
- MODBUS RS485 Communication
- IP68 / NEMA 6P Protection
- Optional Electrode Scraper

**Turbidity Electrode**

Principle

The GOT-PTU-8010 operates using Infrared Absorption and Scattered Light technology based on the ISO 7027 measurement principle.

Infrared light is emitted into the measured liquid. Suspended particles in the liquid cause the light to scatter and be absorbed. The sensor detects changes in light intensity and analyzes the signal to calculate the turbidity or sludge concentration.

Parameters

Specification	Details
Measurement Range	0.01–3,000 NTU
Measurement Accuracy	Less than $\pm 5\%$ of the measured reading or ± 0.5 NTU, whichever is greater
Repeatability	$\pm 3\%$
Resolution	0.01 NTU, 0.1 NTU, depending on the measuring range
Pressure Range	≤ 0.4 MPa
Main Material	Body: SUS316L; Cable: PUR
Power Supply	9–36VDC
Communication Protocol	MODBUS RS485
Storage Temperature	-15–50°C
Measuring Temperature	0–45°C (Non-freezing)
Weight	0.8 kg
Protective Rate	IP68 / NEMA 6P
Cable Length	Standard: 10 m; maximum: 100 m
Electrode Scraper	0: No / 1: Yes

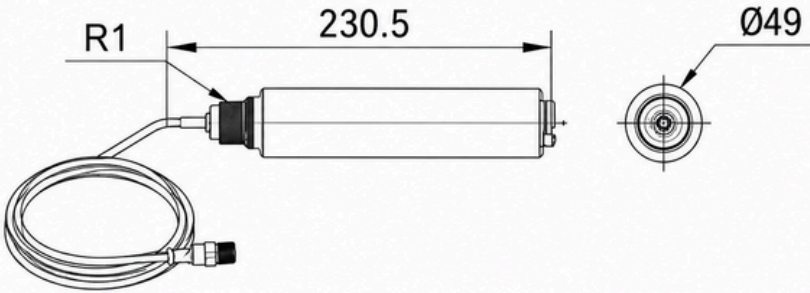
Wiring

The sensor cable should be connected according to the corresponding wire-core configuration.

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

Dimension

No automatic cleaning device



With automatic cleaning device:

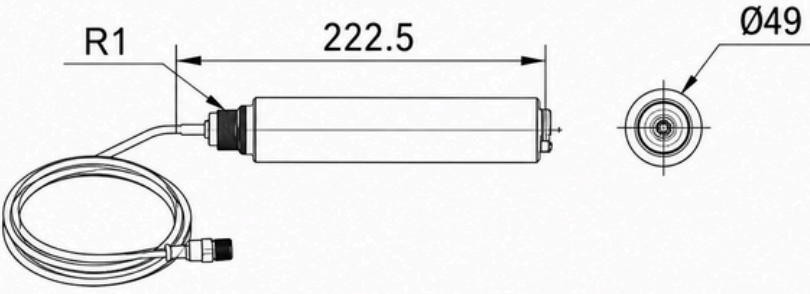
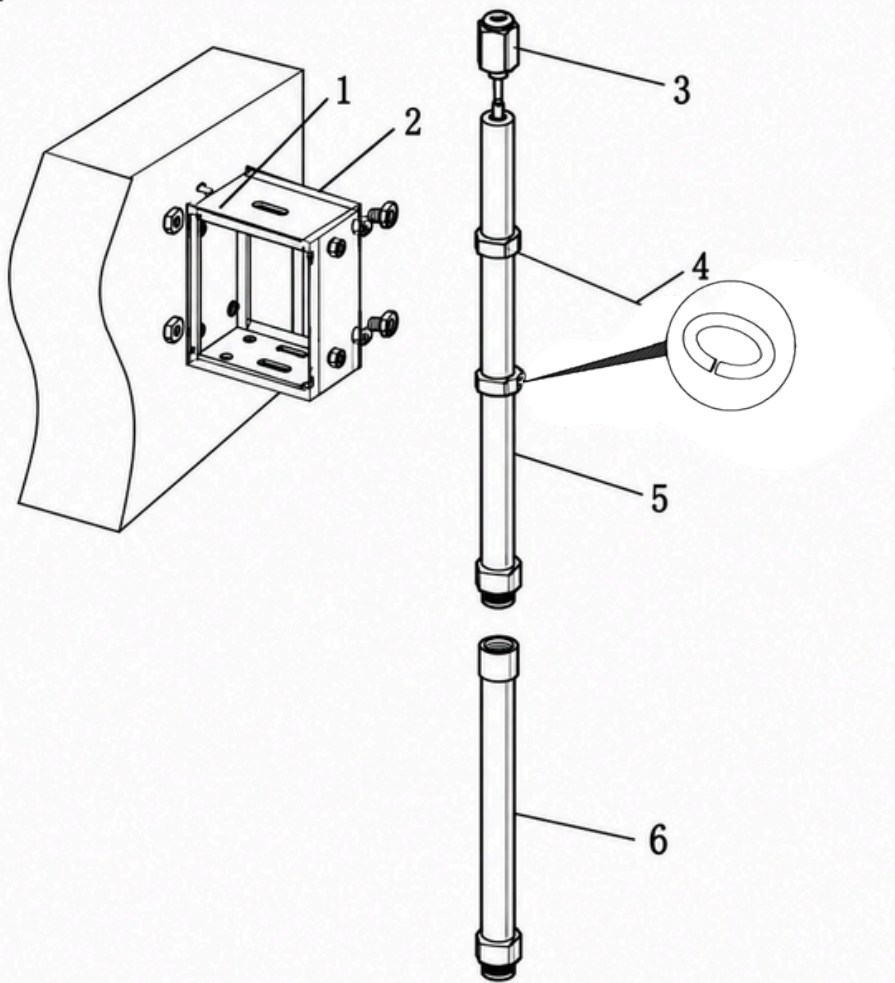


Fig. 1 Dimension Diagram of Turbidity Sensor

Installation

Quick Dismantling Pool Side Fixed Installation

CBZJ-04



6	Nesting tube (external thread internal thread (SS304))	1 PCS
5	Nesting tube (external thread one end (SS304))	1 PCS
4	Rubber ring	1 PCS
3	Installation blockage	1 PCS
2	Mounting plate	1 PCS
1	WB expansion bolt	5 SETS
NO.	Part:	Quantity/Unit

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

Installation

Quick Dismantling Pool Side Installation Sketch Map (ground)

CBZJ-04

6	Mounting tube (external thread internal thread (SS304))	1 PCS
5	Mounting tube (external thread one end (SS304))	1 PCS
4	Rubber ring	3 PCS
3	Installation blockage	1 PCS
2	Mounting plate	1 PCS
1	WB expansion bolt	5 SETS
num.	Part:	Quantity/Unit

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

Installation

Classic Pool Side Fixed Installation

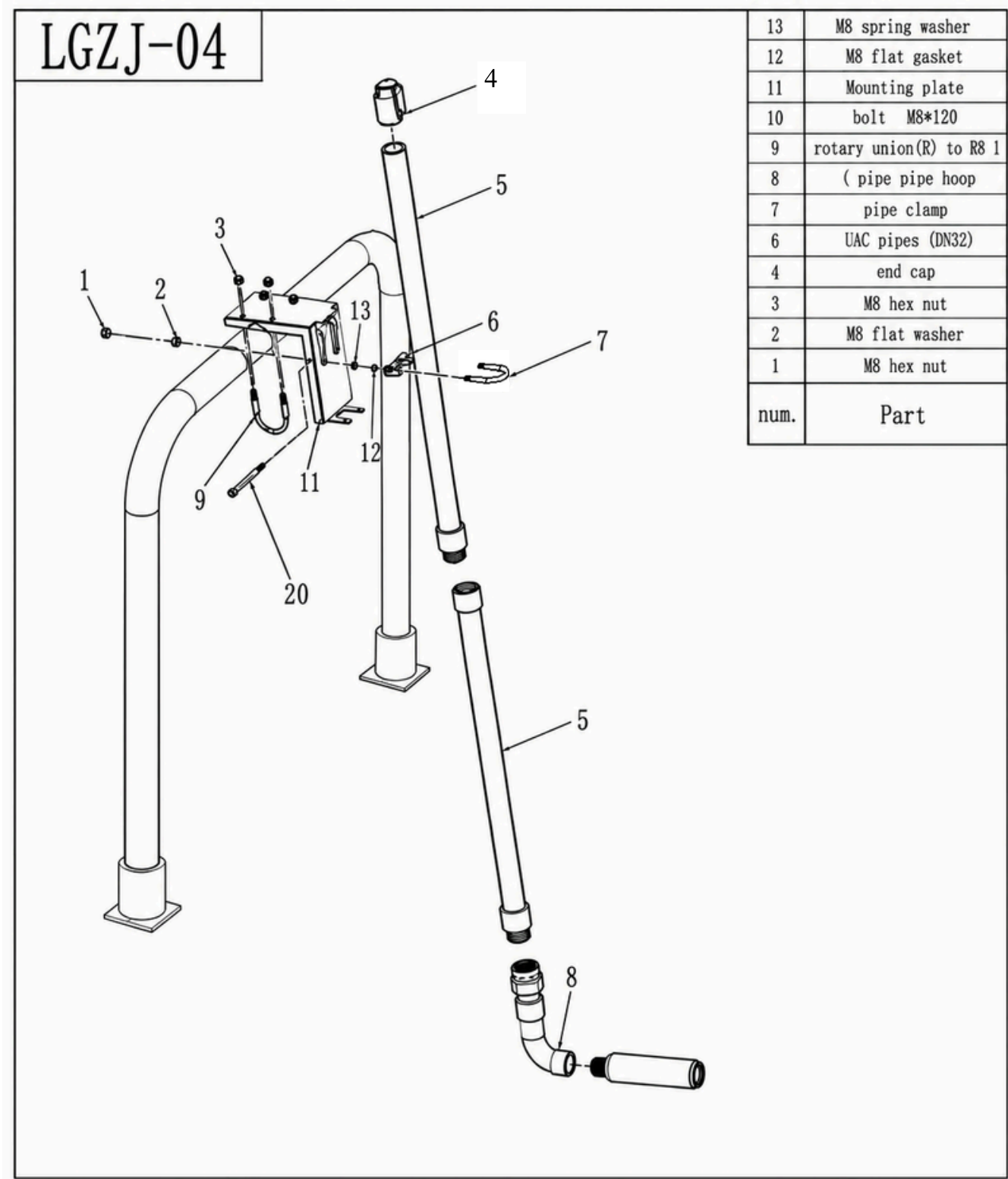
CBJD-04

7	rotary union(R) to R)
6	M8 hex nut
5	bolt M8*16
4	UPIC pipes (DN32)
3	end cap
2	pipe hoop (φ40)
1	M4 expansion bolt
num.	Part

Classic Pool Side Fixed Installation Sketch Map

Installation

Railing Fixed Installation



Railing Fixed Installation Sketch Map

Ordering code

GOT-PTU-8010 -ZG-0-A-B-10-ZY-M3								Description
GOT-PTU-8010	-	-	-	-	-	-	-	0-3000NTU
Measurement Range	ZG							No
Electrode Scraper	0							Yes
	1							RS485
Output		A						12VDC
Power Supply			B					10m
					10			20m
Cable Length					20			30m
					30			Others
					XX			Cable Connector
Cable Connector						ZY		Aviation Plug
						HK		316LSS
Housing Material							M3	Titanium
							T1	



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