Turbidity Sensor

TC-3000-D

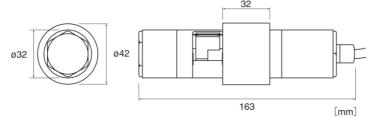
Specifications

Description	Turbidity Sensor		
Model	TC-3000-D	TC-3000SP-D (for seawater)	
Measurement range	0 to 3000 (FTU)		
Display resolution	0.0 to 99.9 FTU: 0.1 100 to 499: 1 500 to 3000: 5		
Power supply voltage	24 VDC ±10%		
Current consumption	Normal: 15 mA max. During cleaning: 130 mA max.		
Communications (function)	MODBUS (RTU/ASCII)		
Cleaning system	Wiper cleaning system		
Operating temperature	0 to 40°C (unfrozen)		
Major material	Body: SUS316L	Body: SUS329J4L	
	Sapphire glass, Fluorocarbon rubber, EPDM, POM		
Dimensions	Ф 32 x 163 mm (excluding Hanging Attachment)		
Weight	Approx. 930 g		
Degree of protection	IP68, maximum depth of 2 meters (underwater type)		

OPTEX sensors line-up



Dimensions



Optional items

Universal transmitter: SC-U1(E)

- 2 sensors can be installed.

 (max. 4 sensors can be installed when using expansion board)
- · 4-20 mA output
- · Relay output

Maintenance kit: TC-MK

Replacement for wiper parts
* Replace once a year is recommended



Mounting attachment: TA-1

* Not include pipes



●The appearance and specifications are subject to change for improvement without prior notice. ●The colors might be slightly different from the actual products. ●Safety Precautions: Read the instruction manual carefully and thoroughly before using the appliance, and then use it correctly. ●The products have a limited life. Maintenance and replace it regularly.

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Easy-to-use compact model has been achieved with well-developed functions



■Built-in wiping cleaning system certainly keeps lenses clean.

Check and clean the window surface once every



■ "Easy to clean" scratch-proof sapphire glass for the optical windows.

The optical windows are made of hard-to-scratch sapphire glass. It enables you to scrub the window surface without problems.



■ Compact size can fit into any installation site.

The compact design makes it possible to install any places

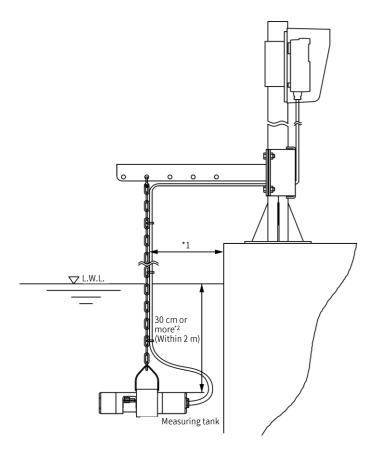


■ Display resolution automatically switches depending on the measurement range

- Measurement range: 0 to 3000
- Display resolution; 0.0 to 99.9: 0.1 100 to 499: 1 00 to 3000: 5

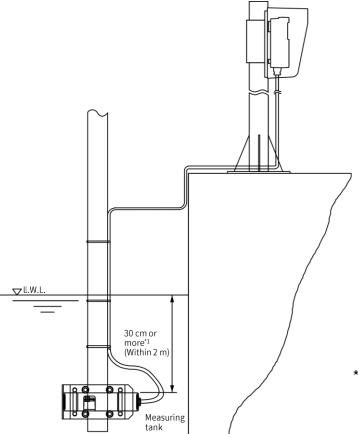
Recommended installation example

Chain suspension method



- *1: The detector may move slightly depending on the flow rate. Mount it so that it does not impact walls.
- *2: Mount the detector so that it remains submerged under the water surface even if the water level fluctuates.

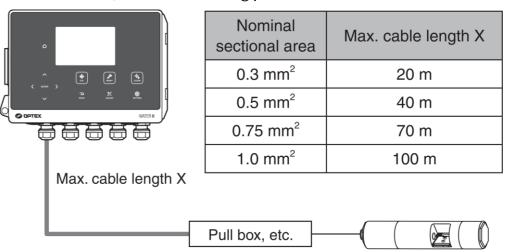
Pipe mounting method



*1: Mount the detector so that it remains subm

Extension of sensor cable

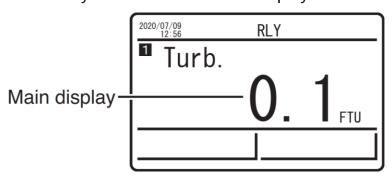
The standard length of the sensor cable is 9 m. To extend the cable, refer to the following. To extend the cable, connection using pull box is recommended.



The cable clamp fits the cable sheath diameter of 6 to 8 mm.

Display item

Set the unit of turbidity to show on the SC-U1 display.



	Measurement item	Display item		Factory default
		item	Unit	setting
Main display	Turbidity	Turb.	FTU	Turb. FTU
		Turb.	度*	
		Turb.	No unit	

*度: Unit is used only in Japan.

Installation and setting instructions can be found in the website instruction manual below.

TC-3000-D

Instruction Manual https://navi.optex.net/manual/053 27/?lang=en



SC-U1(E)

Installation Manual https://navi.optex.net/manual/053 24/en/index.html?type=installation manual



Operation Manual

https://navi.optex.net/manual/053 24/en/index.html?type=operation manual

