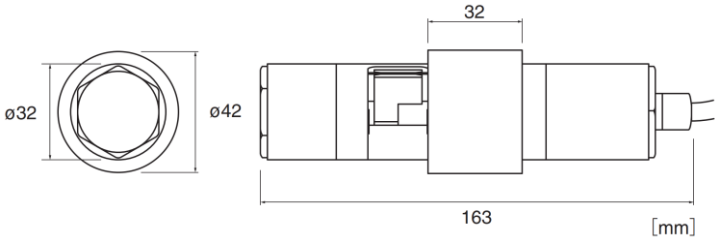


SS Sensor
TS-1000-D

Specifications

Description	SS Sensor	
Model	TS-1000-D	TS-1000SP-D (For seawater)
Measurement range	SS: 0.0 to 1000 mg/L (kaolin) Transparency: 0 to 100 cm (JIS K 0102: 2016)	
Display resolution	SS) 0.0 to 49.9 mg/L: 0.1 mg/L 50 to 1000 mg/L: 1 mg/L Transparency) 0 to 100 cm : 1 cm	
Power supply voltage	24 VDC ±10%	
Current consumption	Normal: 15 mA max. During cleaning: 130 mA max.	
Communication (function)	MODBUS (RTU/ASCII)	
Cleaning system	Wiper cleaning system	
Operating temperature	0 to 40°C (unfrozen)	
Major material	Body: SUS316L	Body: SUS3294J4L
	Sapphire glass, Fluorocarbon rubber, EPDM, POM	
Dimensions	Φ32 x 163 (exclude mounting attachment)	
Weight	Approx. 930 g	
Degree of protection	IP68, maximum depth of 2 meters (underwater type)	

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



OPTEX Sensors Line-up

Turbidity
TC-3000-D



Turbidity
TSC-10-D



Turbidity
TC-Mi



Suspended solids
TS-Mx-D



Dissolved oxygen
DOS-20



pH
SE-pH-D



ORP
SE-ORP-D



Conductivity
SE-Cond-D



OPTEX CO., LTD.

5-8-12, Ogoto, Otsu, Shiga, 520-0101 Japan
Tel.+81-77-579-8680 Fax.+81-77-579-8199
www.optex.co.jp/e/



Easy-to-use for SS and transparency

* Measurement item must be selected.



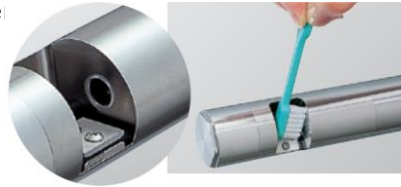
■ Built-in wiping cleaning system certainly keeps lenses clean.

Check and clean the window surface once every month.



■ “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 problem.



■ Compact size can fit into any installation site.

The compact design makes it possible to install any places.



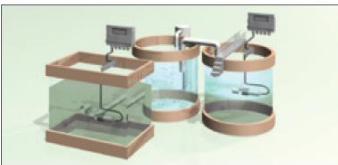
■ Can be measured by switching SS and transparency.

- Measurement range;
SS: 0.0 to 1000 mg/L (kaolin)
Transparency: 0 to 100 cm (JIS K 0102: 2016)
- display resolution;
SS) 0.0 to 49.9 mg/L (0.1 mg/L)
50 to 1000 mg/L (1 mg/L)
Transparency) 0 to 100 cm (1 cm)

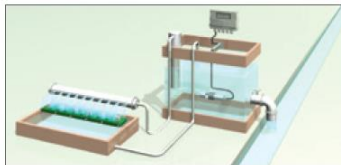
■ Applications



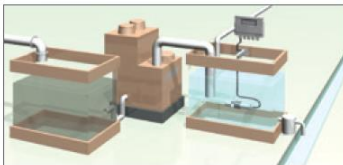
Monitoring the final discharged water.



Controlling the coagulation agent.



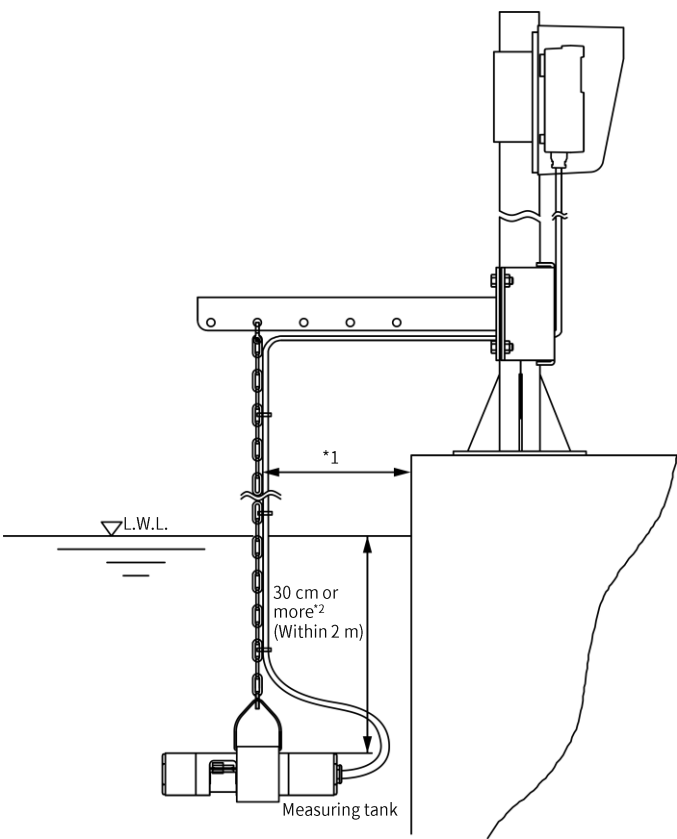
Controlling the rinse water.



Controlling the water recycle system.

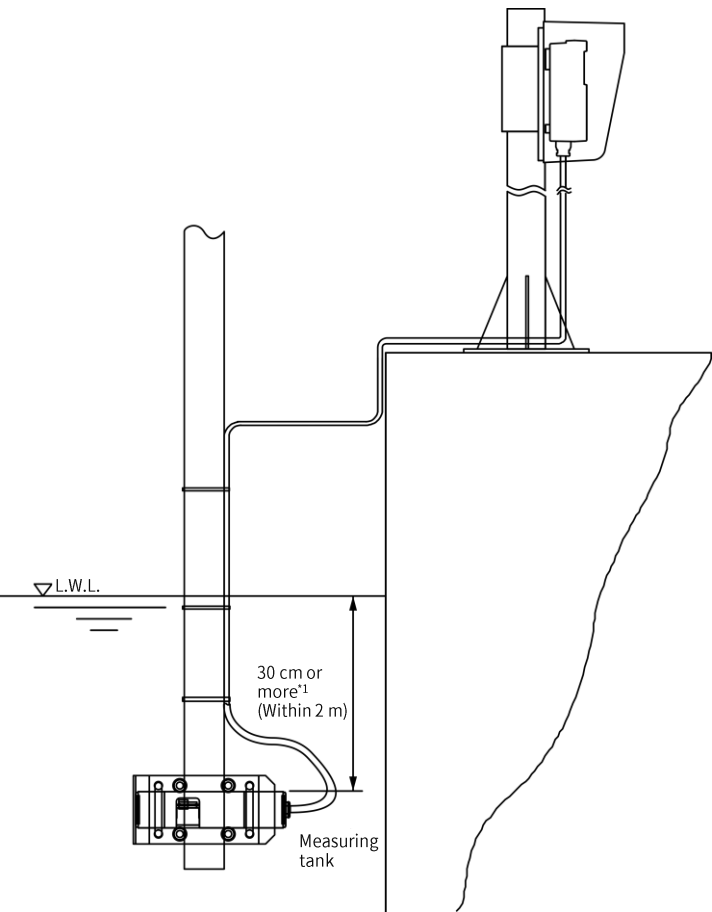
Recommended installation example

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.

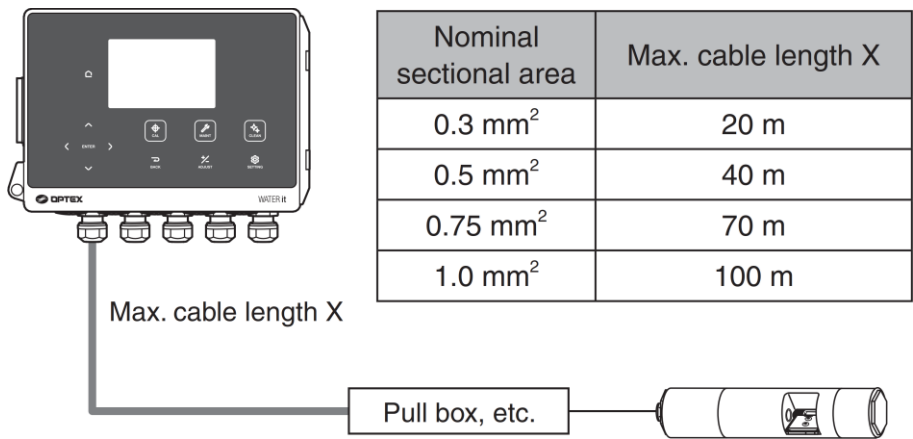
Pipe mounting method



- *1: Mount the detector so that it remains subm

Extension of sensor cable

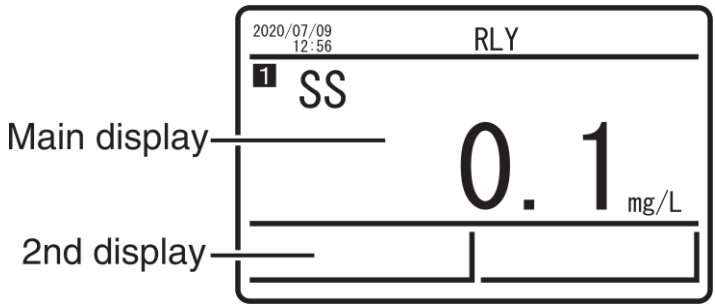
The standard length of the sensor cable is 9 m. To extend the cable, refer to the following. To extend the cable, connection using pull box is recommended.



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 setting
		item	Unit	
Main display	Suspended solid	SS	mg/L	SS mg/L
		SS	No unit	
	Transparency	Trans.	cm	
2nd display	—	OFF	—	OFF
	Suspended solid	SS	No unit	
		SS	mg/L	
	Transparency	Trans.	cm	

* 度 : Unit is used only in Japan.

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

TS-1000-D
Instruction Manual
<https://navi.optex.net/manual/05325/?lang=en>



SC-U1(E)
Installation Manual
<https://navi.optex.net/manual/05324/en/index.html?type=installationmanual>



Operation Manual
<https://navi.optex.net/manual/05324/en/index.html?type=operationmanual>

