

*Turbidity Checker*

# TSC-10(E)

## Make a new style of Turbidity Measurement

Easy Installation, Simple Operation.



### 90 degree scattered light method

Turbidity Checker TSC-10(E) uses a method of 90 degree scattered light as the measuring principle of the world common standard.



### Sapphire glass of the optical windows

The optical windows are made of hard-to-scratch sapphire glass. It enables to scrub the window surface to maintain the Turbidity Checker.



### Built-in wiper cleaning system

The Built-in wiper cleaning system certainly keeps lenses clean.



### Compact design

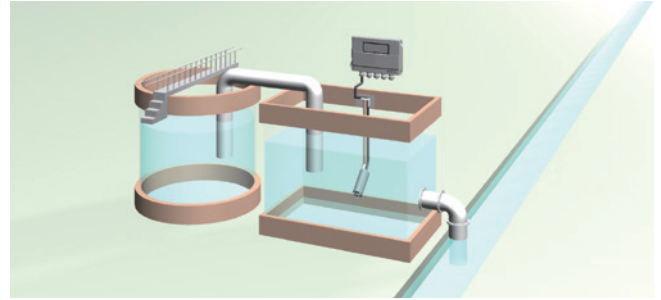
The compact design makes it possible to install easily.

## Specifications

Name	Turbidity Checker
Model No.	TSC-10(E)
Measuring range	0.00-500.0 (NTU/FNU)
Power supply voltage	100-240 VAC ±10% 50/60 Hz
Power consumption	Normal:15 VA or less, During cleaning:22 VA max.
Display resolution	0.01(0.00-19.99), 0.1(20.0-500.0) NTU/FNU
Output	Signal Output (analog 4-20 mA, resistance load of 300 Ω max.)
	Self-checking Relay Output (non-voltage C-contact capacity 240 VAC, 1 A resistance load)
	Alarm Relay Output (non-voltage C-contact capacity 240 VAC, 1 A resistance load)
Alarm timer	1 to 120 minutes (adjustable)
Calibration	Distilled water
Cleaning system	Automatic wiper cleaning system
Time interval for cleaning	10 to 240 min (selectable)
Measuring water temperature	0 to 40°C (unfrozen)
Ambient temperature	Transmitter:-20 to +50°C, humidity 95%RH or less (Avoid direct sunlight)
Operating altitude	Altitude up to 2000 m
Main material	Detector:SUS316L, sapphire glass, fluorocarbon rubber, EPDM, Polyolefin (cable)
	Transmitter:Polycarbonate
Dimensions	Detector:Approx. ø48x133 mm
	Transmitter:Approx. 240 (W) x 162 (H) x 75 (D) mm
Weight	Detector:approx. 1.0 kg
	Transmitter:approx. 1.6 kg
Degree of protection	Detector:IP68, maximum depth of 2 m (underwater type)
	Transmitter:IP65 (jetproof type) Pollution degree 2
Detector cable length	9 m
Option	TSC-MK:maintenance kit, TA-3:mounting attachment,

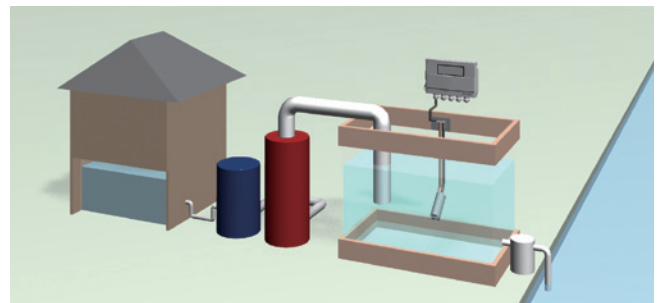
## Application

### Measurement of the effluent



Measuring the turbidity of the effluent from the waste water treatment plant makes it possible to monitor the treatment condition.

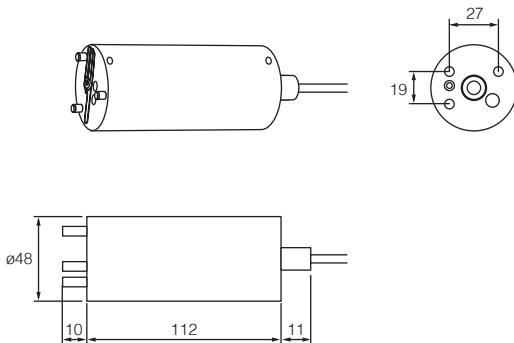
### Measurement of the intake water



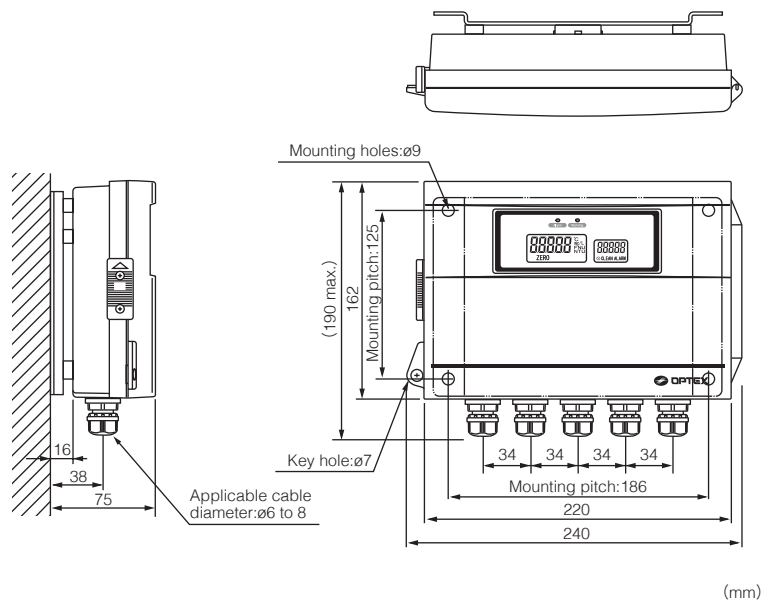
Measuring of the intake water for drinking water manufacturing process makes it possible to prevent any troubles that may be caused by sudden turbidity change.

## Dimensions

### Detector



### Transmitter



Note:Specifications are subject to change without prior notice.

## OPTEX CO., LTD.

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

Copyright (C) 2010 OPTEX CO., LTD.

76036-02-15747-1908