OPTEX
Sensing Innovation

Measure turbidity to four decimal places.
It enables you to monitor the quality of water which is good to drink or not.

0.0001
NTU

MODE ▽ △

Ultra Low Turbidity Checker

TC-Mi

For managers at beverage waterworks and water purification plants.
TC-Mi provides you with easy and accurate water quality management!

Easy installation

The compact design containing a deforming enables you to install easily.

Maintenance cost reduction

A LED light source eliminates the need for replacement.

High measurement accuracy

The condensation prevention function maintains a stable measure-ment.

Applications

Scene 1 Water intake management
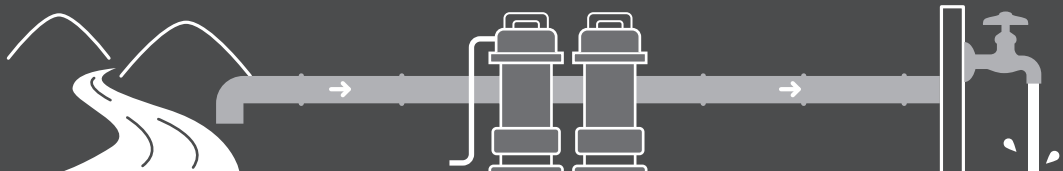
Manage raw water from rivers and wells

Scene 2 Detect membrane breakage

Monitor the condition of the membrane unit and detect membrane breakage

Scene 3 Clean water management

Monitor drinking-water quality

Accurate and Stable measurement

・Equipped with condensation prevention function
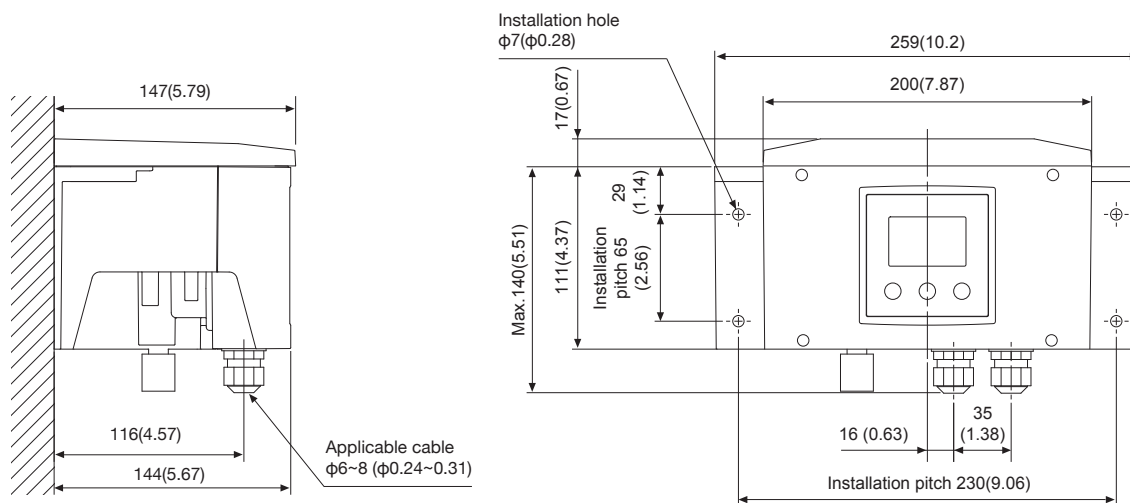・Built-in deforming tank to remove air bubbles

Water and dust resistance

・High waterproof and dustproof structure to various installation sites

Low maintenance cost

・No need to use or replace dehumidifier
・Employing a long-life light source

Dimensions

147(5.79)

116(4.57)

144(5.67)

Applicable cable
φ6~8 (φ0.24~0.31)

Installation hole
φ7(φ0.28)

259(10.2)

200(7.87)

17(0.67)

Max.140(5.51)

111(4.37)

Installation pitch 65 (2.56)

29 (1.14)

16 (0.63)

35 (1.38)

Installation pitch 230(9.06)

mm(in)

Specifications

	Ultra Low Turbidity Checker
Model No.	TC-Mi
Measuring method	Nephelometric 90° scattered light
Light source	LED
Measuring range	0.0001 – 100.00 (NTU/FNU) 0.0010 – 20.000 (deg.: polystyrene standard solution)
Display	LCD monitor
Display resolution	0.0001 – 9.9999NTU: 0.0001NTU 10.000 – 100.00NTU: 0.001NTU
Source voltage	24 VDC ±10%
Consumption current	Normal time: 100 mA or less Startup time: 600 mA or less
Digital communication	MODBUS (RS485) TC-Mi protocol (RS485)
Analog output	Signal output (analog 4 – 20 mA, resistance load 300 ohm or less) Self-checking output (open collector)
Measuring water flow rate	100 – 200 mL / min
Measuring water temperature	0 to 40°C (No freezing)
Operating temperature	-20 to +50°C humidity 95%RH or less
Main materials	PP-GF AES SUS316L
Dimension	Approx. 157 (H) x 259 (W) x 147 (D) mm
Weight	Approx. 2 kg
Protective construction	IP65
Option	TC-Mi-FL (Flowmeter)

Note: Specifications and design are subject to change without prior notice.

OPTEX CO., LTD.

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