





**Portable Turbidity Meter** 

Immersion-type sensor Turbidity
Perfect for simple the Field
Neasurements in the Field

High Reliability in Low Concentration Regions

## **Power Saving** Design

120 hour continuous two AA alkaline batteries

Waterproof **Construction for** Field Measurement

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FURBIDITY METER 78-31-

**▼**DATA MENU

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ENTER HOLD

(IP67: The unit can be submerged at 1m depth for up to 30 min)



Available for Rental at: Air-Met Scientific Ptv Ltd

## Ideal for turbidity measurement of industrial wastewater, construction wastewater, and environmental water such as river and lake water



# High accuracy in low concentration regions

Repeatability of  $\pm$  0.5 NTU in low measurement ranges.

#### ■Power saving design

Requires only two AA alkaline batteries for approximately 120 hours of continuous measurements.

# Immersion measurement for one day monitoring (continuous measurement)

Directly immersing the sensor into sample water makes it possible to monitor turbidity for one day (24 hours or less).

- \*1 This sensor is not equipped with a cleaning function. Depending on the water quality or service conditions, it may not be possible to measure continuously for up to 120 hours. Please contact us for details.
- \*2 Maximum water depth is 10 m.

#### ■1,000 data memory function

Auto-save for specified intervals\*

\*Short interval memory function: 1 sec. to 99 min. 59 sec. Long interval memory function: 2 min. to 99 hrs. 59 min. (When using the long interval memory function, the power turns off (enters sleep mode) after measuring turbidity for 1 minute. It remains off until the next measurement starts.)

### Great extensibility

(Ability to connect the meter to a personal computer, an external printer and a recorder)

We provide optional special data acquisition software for loading measurement data in text format on a personal computer.

#### **Specifications**

Model		TB-31
Measurement method		Near infrared 90 degree light scattering measurements
Measurement range	Turbidity*1	0.0 to 80.0 NTU (mg/L) 0 to 800 NTU (mg/L) Range selection: Automatic/ Manual
	Temperature	0 to 50.0℃
Display range	Turbidity	0.0 to 88.0 NTU (mg/L) 0.0 to 880 NTU (mg/L)
	Temperature	−5.0 to 110.0°C
Repeatability	Turbidity	±0.5 NTU or less (0.0 to 80.0 NTU range) ±5 NTU or less (0 to 800 NTU range) Measurement conducted using a formazine standard solution under fixed conditions
	Temperature	±0.5℃ or less
Water depth		Up to 50 m (equal to 0.5 MPa)
External output port*2		•RS-232C (non-isolated): Personal computer or external printer EPS-P30 (optional) •Analog output port (non-insulated): Three output ports for turbidity, temperature, and range
Waterproof construction (main body)		IP67 (enabled when the sensor is connected and the external I/O ports are masked)  * The unit can be submerged at a depth of 1 m for up to 30 min.
Ambient temperature / humidity		0 to 45℃, no more than 90% (no condensation)
Power source		Two AA alkaline batteries/nickel hydrogen batteries Dedicated AC adapter (6 VA, optional) also available
Power consumption (3V battery)		Approximately 0.05 W
External dimensions		Main body: Approx. 68 mm (W) x 35 mm (H) x 173 mm (D) Sensor: φ Approx. 30 mm x 240 mm
Weight		Main body: Approx. 280 g (includes batteries) Sensor (cable length 2 m): Approx. 400 g

<sup>\*1 &</sup>quot;NTU" indicates turbidity calibrated using a formazine standard solution, and "mg/L" indicates turbidity calibrated using a kaolin standard solution.

#### Standard accessories

Turbidity sensor ELL-011 (cable length: 2 m) (only included with the full set) Protection cover (with shoulder belt), size AA alkaline battery (test use) (2) Instruction manual

#### Optional sensor

(When you order the optional sensor, select "main body only" for TB-31.)

Product / Model	Cable length
Turkidit.	11m
Turbidity sensor	30m
LLL-011	50m

#### Other optional parts

Product	Model / Code No.		
External printer (with connection cable)	EPS-P30		
Analog output cable (1.5 m)	118N063		
Data acquisition software	GP-LOG		
RS-232C connection cable (2 m)	118N062		
AC adapter	_		

## **DKK-TOA** CORPORATION



Do not operate producuts before consulting instruction manual.

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<sup>\*2</sup> Special cables are required to use the RS-232C interface and analog output port simultaneously. Please contact us for details. If the sample is grounded, make sure to insulate the RS-232C and analog output port.