

Wide sensing range turbidity sensor with wiper

INFINITY-Turbi

ATU75W2-USB/
CAR/CAD

ISO9001



JQA0950

For extreme turbid waters



- Two range turbidity measurement (medium and high density)
- Suitable for long-term measurement
- Compact design
- Wiper to prevent bio-fouling



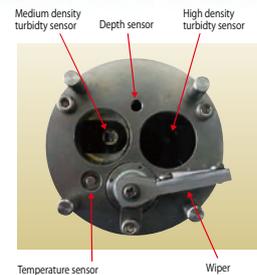
JFE Advantech Co., Ltd.

INFINITY-Turbi

ATU75W2-USB/CAR/CAD

■ Description

INFINITY-Turbi is a reliable sensor for long time monitoring of extremely turbid waters. The dual sensors enables both medium (0 to 1,000 FTU) and high (0 to 100,000 ppm) turbidity measurements. With its mechanical wiper, the sensor surface is kept clean throughout the long-term observation period. This instrument is equipped with temperature and pressure sensor as standard set-up which is useful on focusing on tidal events and surrounding water masses.



■ Sensor specifications

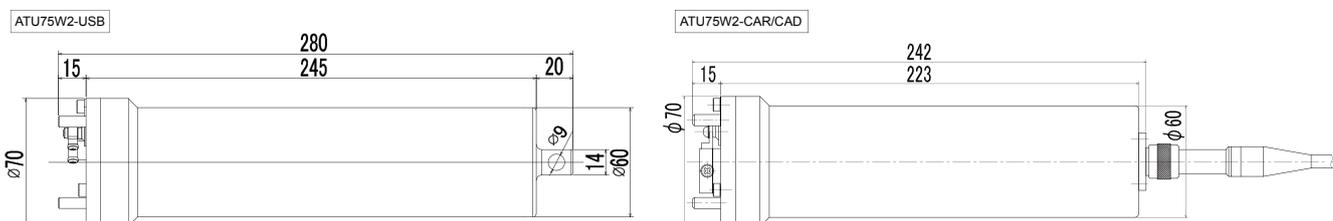
Parameter	Medium density turbidity	High density turbidity	Depth	Temperature
Principle	Infrared backscattering (LED)	Backscattering (optical fiber)	Semiconductor sensor	Thermistor
Range	0 to 1,000 FTU (Formazin reference)	0 to 100,000 ppm (Kaolin reference)	0 to 25 m*	-3 to 45 °C
Resolution	0.03 FTU	2 ppm	0.0005 m	0.001 °C
Accuracy	±0.3 FTU or ±2%	±10 ppm or ±5%	±0.14% FS	±0.02 °C (3 to 31 °C)

* Pressure range: Variable to 40 m, 100 m and 200 m

■ Instrument specifications

	Data logger	Cable type
Model	ATU75W2-USB	ATU75W2-CAR/CAD
Memory medium	1 GB miniSD card	—
Battery	CR-V3 3.3 Ah Lithium battery (maximum 4 batteries)	—
Operating voltage	—	DC 12 to 24 V
Communication	USB 2.0 (ver 1.1 compatible)	CAR: RS-232C, CAD: RS-485
A/D converter	16 bit digital conversion	
Sampling interval	0.1 to 1.0 s (0.1 s increment), 1 to 600 s (1 s increment)	—
Burst sampling interval	1 to 1,440 min (1 min increment)	—
Number of samples per burst	1 to 18,000 samples	—
Power consumption	165 mA	40 mA
Dimensions	Φ70 × 280 mm	Φ70 × 242 mm (connector not included)
Weight	Approx. 1.4 kg in air, 0.7 kg in water	Approx. 1.2 kg in air, 0.6 kg in water
Depth rating	200 m depth equivalent	
Materials	Titanium (grade 2)	

■ Drawing



※ Dimensions are in mm. ※ All specifications on this leaflet are subject to change without notice.

 **JFE Advantech Co., Ltd.**

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