

Logger version super wide range turbidity sensor with wiper

INFINITY-Turbi

ATU75W2-USB

Turbidity

Depth

Temperature

Description

Infinity-Turbi is an autonomously deployable data logger for long-term turbidity measurements. With dual sensors for low (0 to 1,000 FTU) and high (0 to 100,000 ppm) ranges, the instrument can provide high accurate turbidity measurements in normal to muddy water. *Infinity-Turbi* has a mechanical wiper to keep the optical window clean, making long-term observations possible. The instrument has temperature and depth sensors as standard as well. *Infinity-Turbi* matches various measuring situations and applications.

Sensor Specifications

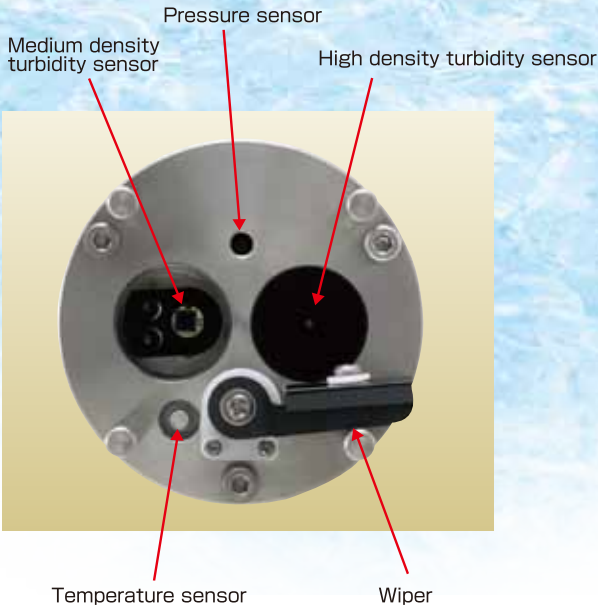
| Parameter | Medium density turbidity | High density turbidity | Depth | Temperature |
|------------|--------------------------------------|--------------------------------------|----------------------|-------------------|
| Principle | Infrared backscattering (LED) | Backscattering (optical fiber) | Semiconductor sensor | Thermistor |
| Range | 0 to 1,000FTU (Formazin calibration) | 0 to 100,000ppm (Kaolin calibration) | 0 to 25m* | -3 to 45℃ |
| Resolution | 0.03FTU | 2ppm | 0.0005m | 0.001℃ |
| Accuracy | ±0.3FTU or ±2% | ±10ppm or ±5% | ±0.035m | ±0.02℃ (3 to 31℃) |

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

Logger Specifications

| | |
|-------------------------|---|
| Memory medium | miniSD card *waterproof & high speed type |
| Data capacity | 1GB provided as standard (miniSD card) |
| A/D converter | 16-bit digital conversion |
| Measuring mode | Continuous mode, Burst mode |
| Measuring interval | 0.1 to 600 seconds |
| Burst sampling interval | 1 to 1,440 minutes |
| No. of samples | 1 to 18,000 |
| Battery | CR-V3 lithium / 3.3Ah (four maximum) |
| Communication | USB 2.0 (Ver. 1.1 compatible) |
| Current consumption | 165mA |
| Housing material | Titanium (grade 2) |
| Dimensions | φ70mm×280mm |
| Weight | Approx. 1.4kg in air, 0.7kg in water |
| Depth rating | 500m depth equivalent |

*ATU75W2-USB has a magnet coupling wiper.
Choose another model(ATU75W2-USB)with a direct acting wiper using amotor, if you deploy it in the fields including iron sands (e.g. river).



Drawing

