Miniature Super-low Turbidity Data Logger

COMPACT LTW/LT

NEW

ATU6W-CMP ***ATU6-CMP***

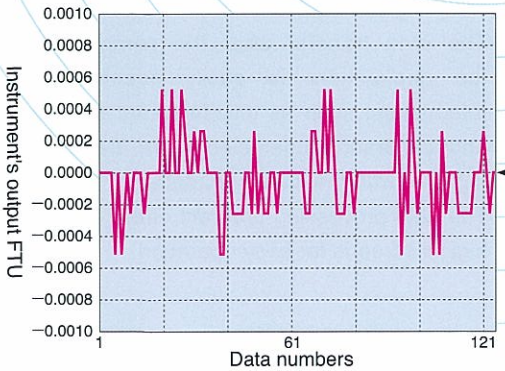
Low-Turbidity

Ultra highly sensitive turbidity sensors have been launched. These sensors have a resolution of 0.0002FTU and their zero point noise is within ±0.0005, which allows accurate measurement in open sea and in deep sea where it used to be hardly possible to measure.

In this model, newly developed sensors are integrated in the usual data logger of Compact-series. Two types of models are now available for shallow water with fouling removal wiper (ATU6W-CMP) and for deep water with pressure-resistance of 6500m (ATU6-CMP).

Calibration is performed with formazine solution and their concentration is shown in FTU unit.

Zero-point noise level ATU6W-CMP



Much less noise makes it possible to detect the variation of turbidity which used to be impossible. Graph shows oscillation at zero point.

Specifications

Instrument	ATU6W-CMP	ATU6-CMP
Parameters	Turbidity and battery voltage	
Method	Infrared backscattering	
Measuring range	0 to 10FTU or 0 to10, 10 to 100FTU (10-100FTU:option)	
Resolution	0.0002FTU (0.002FTU for 10 to 100FTU)	
Accuracy	±0.002FTU or ±2% of measured value	
Communication	RS-232C	
Capacity	179178 data	
Memory	2M byte flash memory	
A/D conversion	16 bit digital	
Measuring mode	Continuous, bust and real-time mode	
Measuring interval	0.5,1,2,5,10,15,20,30 seconds	
Burst time	1 to 1440 minutes	
Sample numbers	10,15,20,30,60,120,180,240,300,600,1200	
Warming up time	10 seconds	
Power/Capacity	"D" lithium battery/14Ah	"C" lithium battery/7Ah
Current consumption	Measuring:50mA Wake-up:10mA Using wiper:450mA (Max)	Measuring : 90mA Wake-up: 10mA
Materials	Housing:titanium Optical sensor:epoxy resin	Housing:titanium Optical sensor:epoxy
Weight (incl. battery)	1080g in air 560g in water	800g in air 480g in water
Pressure-resistance	200m depth	6500m depth
Other	Automatic clearance with wiper	High pressure resistant

Sensor structure is different between models with and without wiper.
If optional range is adopted, the resolution at 0 to 10FTU range remains unchanged.
This instrument is made on comparison calibration, using Alec standard as reference.