Logger version 2-D electro-magnetic current meter

INFINITY-EN AEM-USB

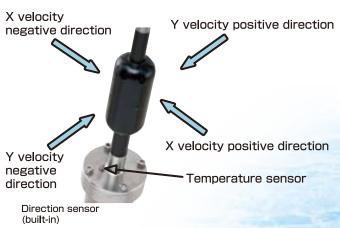






■Description

Infinity EM is an autonomously deployable EM (electro-magnetic) current meter with a data logger. Due to the principle, the instrument provides high accurate 2-D current measurements in even low scatter fields, where ADVs (Acoustic Doppler Velocimeter) has a difficulty. The measurement range is wide from 0 to \pm 500 cm. The instrument design is compact (1.0kg in air). Infinity EM allows you to measure current speeds virtually anywhere.



■Sensor Specifications

Parameter	Velocity	Direction	Temperature
Principle	2-D electromagnetic velocity sensor	Hole element	Thermistor
Range	0 to ±500cm/s	0 to 360°	−3 to 45°C
Resolution	0.02cm/s	0.01°	0.001℃
Accuracy	±1cm/s or ±2%	±2°	±0.02°C(3 to 31°C)

■Logger Specifications

Memory medium	miniSD card *waterproof & high speed type	
Data capacity	1GB provided as standard	
A/D convertor	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 (two maximum)	
Communication	USB 2.0 (Ver. 1.1 compatible)	
Current consumption	90mA	
Housing material	Titanium (grade 2)	
Dimensions	φ42mm(Flange area:φ54mm)×455mm	
Weight	Approx. 1.0kg in air, 0.6kg in water	
Depth rating	1,000m depth equivalent	
Tensile strength	Approx. 2kN (200kg equivalent)	

^{*}Use the sensor upward. When it is deployed.

Drawing

