ADCP-1200K

Acoustic Doppler Current Profiler



Overview

The ADCP-1200K Acoustic Doppler Current Profiler (ADCP) adopts piston array technology and operates based on the acoustic Doppler principle. Equipped with an additional central echo-sounding beam, it provides real-time online output of accurate data including flow velocity, discharge, water level, and water temperature.It delivers excellent performance especially in shallow river channels and low-flow velocity measurement environments, making it a high-quality, high-performance and cost-effective ADCP solution.

This device integrates real-time measurement functions of flow velocity profile, water depth and cross-section discharge. It can be rapidly mounted on telemetry boats and trimaran boats for mobile surveying. It supports external connection with various auxiliary devices such as GNSS and radio stations, to realize remote telemetry data transmission.It provides accurate and reliable data support services for hydrological surveys, flood warning systems, water regulation projects, water environment monitoring, smart agriculture, smart water maagement and other fields.

TECHNICAL SPECIFICATIONS

Website: https: //china-sonar.com/
E-mail: sales@china-sonar.com
Specifications subject to change without notice.
© 2025China Sonar . All rights reserved. Rev. February 2025

Model	ADCP-1200K
Operating Frequence	1200kHz
Beam Configuration	4 Beams / 5 Beams
Center Beam Frequency	400kHz
Current Velocity Range	±10m/s (Default); ±20m/s (Max.)
Current Velocity Accuracy	±0.25%V ±0.2cm/s
Current Velocity Resolution	1mm/s
Depth Cell Range	0.04~2m
Number of Depth Cells	1~255
Pulse Frequency	1~2Hz
High-Precision Mode Range	22m
Max. Range	30m
Other configurable function	Bottom tracking
Bottom Tracking Depth Range	0.2~45m
Bottom Velocity Accuracy	±0.25%V ±0.2cm/s
Sensor（Temperature/pressure)	Range: -5℃~+45℃; Precision: ±0.5℃; Resolution: 0.01℃
3D High-Precision Electronic Compass	Optional
Bearing	Range: 0˚~360˚; Precision: Calibration≤0.3° (RMS) (pitch Range -20°~20°); Resolution: 0.01˚; Repetitiveness: 0.05° (RMS)
pitch angle	Range:-90˚~90˚; Precision:±0.2˚(RMS); Resolution: 0.01˚; Repetitiveness: 0.05° (RMS)
Roll angle	Range:-90˚~90˚; Precision:±0.2˚(RMS); Resolution: 0.01˚; Repetitiveness: 0.05° (RMS)
Input Voltage	12~36V
Average Power Consumption	8W
Communication Protocol (selectable)	Ethernet, RS485, RS232
Internal Storage Capacity	Standard 16GB
Dimensions	Φ160mm × 200mm
Weight	5kg
Optional	Wave Measurement Function (5-beam)

Website: https: //china-sonar.com/
E-mail: sales@china-sonar.com
Specifications subject to change without notice.
© 2025China Sonar . All rights reserved. Rev. February 2025