H-ADCP-300K

Horizontal Acoustic Doppler Current Profiler 300kHz



Overview

The H-ADCP-300K 300kHz horizontal ADCP is a new product that features on-line monitoring of current velocity. It obtains current velocity based on the acoustic Doppler principle. It is a compact and light-weight ADCP with high measurement precision and large range.

It can be installed on shore or surface platforms. It is applicable for real-time measurement of horizontal current velocity profile in ports, waterways, rivers, lakes, or around bridge piers, to provide high-precision, high resolution data. The measured profile or flow rate data are transmitted via radio or network to designated platforms for remote real-time monitoring of current data. This product provides accurate and stable data support for flood warning systems, water transfer projects, water environment monitoring, smart agriculture, smart water services, etc.

Applications

Ports & Waterways Current monitoring for navigation management, berthing safety and bridge pier scour assessment.

Hydrology & Flood Prevention Flow and discharge measurement for rivers, open channels, water diversion projects and flood early warning systems.

Water Environment & Ecology Flow observation in lakes, reservoirs and estuaries for water quality, sediment and ecological research.

Coastal & Marine Engineering Hydrodynamic monitoring for coastal construction, offshore wind farms and marine structure design.

Smart Water & Agriculture Flow monitoring for urban drainage systems and irrigation canals.

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TECHNICAL SPECIFICATIONS

Model	H-ADCP-300K
Operating Frequence	300kHz
Number of Horizontal Transducers	2
Current Velocity Range	±5m/s (default); ±20m/s (Max.)
Current Velocity Precision	±0.5%V±0.5cm/s
Current Velocity Resolution	1mm/s
Depth Cell Range	1 ~ 8m
Number of Depth Cells	1~255
Profile Depth Range	1 ~ 250m
Temperature Sensor	Range: -5℃~+45℃; Precision: ±0.5℃; Resolution: 0.01℃
pitch Sensor	Range: ±40°; Precision: 0.1°; Resolution: 0.01°
Compass	Precision: 1°(RMS); Precision: 0.3°; Resolution: 0.1°
Input Voltage	18~36V
Average Power Consumption	6W
Communication Protocol (selectable)	Ethernet, RS485, RS232
Dimension	315mm x 215mmx200mm
Weight	10 kg

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