H-ADCP-600K

Horizontal Acoustic Doppler Current Profiler 600kHz



Overview

The H-ADCP-600K Horizontal Current Profiler is a newly launched online velocity and flow monitoring instrument. It calculates water flow velocity based on the acoustic Doppler principle, featuring compact footprint, lightweight design, superior flow measurement accuracy and long effective profiling range.

Available for shore-based or floating-platform mounting per project requirements, the unit is widely deployed in harbors, waterways, rivers, lakes and bridge pier zones. It performs real-time horizontal velocity profile monitoring and delivers high-precision, high-resolution datasets including profile flow velocity and discharge. Measured data is transmitted to designated platforms via radio transceiver or IP network to enable remote real-time monitoring of hydrological parameters.

The instrument supplies credible, high-quality raw data for flood early warning systems, water diversion projects, aquatic environmental monitoring, smart agriculture and smart water management initiatives.

TECHNICAL SPECIFICATIONS

Model	H-ADCP-600K
Operating Frequence	600kHz
Number of Horizontal Transducers	2
Current Velocity Range	±5m/s (default); ±20m/s (Max.)
Current Velocity Precision	±0.5%V±0.2cm/s
Current Velocity Resolution	1mm/s
Depth Cell Range	0.5 ~ 4m
Number of Depth Cells	1~255
Profile Depth Range	0.5 ~ 120m
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	10~18V
Average Power Consumption	7W
Communication Protocol (selectable)	Ethernet, RS485, RS232
Dimension	260mm x 170mmx210mm
Weight	6kg

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