

DVL-300K Phased-array

Integrated Doppler Velocity Log phased-array

300m (optional: 3000m, 6000m)



TECHNICAL SPECIFICATIONS	
Working Frequency	300kHz
Array Type	Phased Array
Max Bottom Tracking Altitude	200 m
Bottom Tracking Velocity Range	±7.5m/s
Bottom Tracking Accuracy	±0.3%±1mm/s (export-controlled), > 1% (license-free)
Bottom Tracking Resolution	0.05 mm/s
Water Profiling Range	4.5-150m
Water Profiling Velocity Range	±7.5m/s
Water Profiling Long Term Accuracy	±0.2%±2mm/s
Source Level (re 1 μPa)	218 dB@1 m
Beam Width(1-Way)	2.8°
Number of Beams	4-phased array
Beam Angle (nominal)	30°
Maximum Operating Depth	300m (optional: 3000m, 6000m)
Current Profiling Capability	10m fixed water layer
Acoustic Array Pressure Resistance	3 Mpa (customizable per user requirements)
Velocity Measurement Modes	Auto Current Tracking, Bottom Tracking (Automatic Switching)
Sound Speed Correction	Not required
Operating Voltage	24±4V DC
Average Power Consumption	<30W
Operating Temperature	-5°C to 45°C
Storage Temperature	-30°C to 60°C
Electronic Chassis (Excluding Plug)	Φ165mm×250mm
Phased-Array Diameter	Φ145±1mm (Acoustic Radiation Surface)()
Electronic Chassis Material	Titanium Alloy
Weight	<9kg (in Air)
Communications	Interface Type: Standard RS-422; Output Data Format: PD6 (ASCII). Frames Transmitted in Bottom Tracking Mode: :BI, :BD Frames Transmitted in Water Layer Tracking Mode: :WI, :WD