

DVL-300K Phased

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
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	4.5 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
Array Diameter (Acoustic Radiation Surface)	Φ145±1mm
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