

PandaADCP-SC-300K

200m, 1000m, 3000m, 6000m self - contained ADCP



TECHNICAL SPECIFICATIONS

Brand	PandaADCP		
Working Frequency	300kHz		
Operating Mode	Self-Contained		
Batteries	Lithium Battery(1008 watt hour)		
Water Profiling Range (Broadband / Narrowband)	120m/160m		
Bottom Track Range	220m		
Velocity Accuracy	$\pm 0.5\% \pm 5\text{mm/s}$		
Velocity Resolution	1mm/s		
Velocity Range	$\pm 5.0\text{ m/s}$ (Default); $\pm 20.0\text{ m/s}$ (Maximum)		
Number of Depth Cells	1 - 255		
Ping Rate	2Hz(typical)		
Depth Cell Size(High Precision Mode)	1-8m		
Depth Cell Size(Long Range Mode)	8m		
Echo Intensity Dynamic Range	100dB		
Echo Intensity Precision	$\pm 1.5\text{dB}$		
Standard Profiling Modes	High resolution water profiling, Fast sampling		
Beam Angle	20°		
Beam Width	3.5°		
Beam Configuration	4-beams, convex		
Internal Memory	64 GB Micro SD Card		
Communications	RS - 232 or RS - 422		
Sensor (Water Temperature)	Range: -5° - 45°C , Accuracy: $\pm 0.1^{\circ}\text{C}$		
Sensor (Pressure	Range: according to depth rate, Accuracy: $\pm 0.25\%$ Range		
Sensor (Compass)	Range: 0° - 360° , Accuracy: 2° RMS, Resolution: 0.01°		
Sensor (Tilt)	Range: Roll $\pm 180^{\circ}$ Pitch $\pm 90^{\circ}$, Accuracy: $< 0.1^{\circ}$ RMS, Resolution: 0.01°		
Operating Temperature	-5° to 45°C		
Storage Temperature (Without Batteries)	-30° to 60°C		
Power Input, Power Consumption	20V - 50V, $\leq 10\text{W}$		
Casing	Titanium alloy		
Weight(In air/In water)	8.0 kg/4.0 kg (200m/1000m)	11.5 kg/7.5 kg (3000m)	15.5 kg/11.5 kg (6000m)
Dimension	$\Phi 224\text{ mm} \times 285\text{ mm}$ (200m/1000m)	$\Phi 230\text{ mm} \times 300\text{ mm}$ (3000m)	$\Phi 230\text{ mm} \times 315\text{ mm}$ (6000m)
Available Options	-		