

Aquadopp Profiler 1 MHz Z-Cell - Legacy

No longer available. See new version.

This version of the Aquadopp Profiler Z-Cell is no longer available.

Please see the <u>Aquadopp Profiler Z-Cell Generation 2</u>.

This version of the Aquadopp remains functional and supported. Please visit our <u>support center</u> if you require assistance.

Highlights

Applications

Technical specifications

Water velocity measurements		
Maximum profiling range	12-25 m	
Cell size	0.3-4 m	
Minimum blanking	0.20 m when profiling; 0 m when Z-Cell enabled	
Maximum number of cells	96	
Measurement cell position	N/A	
Default position (along beam)	N/A	
Velocity range	±10 m/s	
Accuracy	$\pm 1\%$ of measured value ± 0.5 cm/s	
Velocity precision	Consult instrument software	
Maximum sampling rate (output)	1 Hz	
Internal sampling rate	6 Hz	

Z-Cell Properties- FOR Z-CELL 2		
Distance to measurement volume	0.05 - 2.5 m	
Cell size	0.2 - 1.5 m	
Velocity range (Horizontal)	±5 m/s	
Transducer acoustic frequency	2 MHz	
Number of beams	2	

Echo intensity (along slanted beams)	
Sampling	Same as velocity
Resolution	0.45 dB

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90 dB 1 MHz 3 3.4° bled) 6 m 20-300 mm 0.2 m 128
3 3.4° bled) 6 m 20-300 mm 0.2 m
3.4° bled) 6 m 20-300 mm 0.2 m
bled) 6 m 20-300 mm 0.2 m
6 m 20-300 mm 0.2 m
20-300 mm 0.2 m
0.2 m
128
Product of profiling range and velocity should not exceed 1.0 m2/s
$\pm 1\%$ of measured value ± 0.5 cm/s
1 Hz (continuous mode), 8 Hz (burst mode)"
Thermistor embedded in head
-4 to +40 °C
0.1 °C/0.01 °C
10 min
Magnetometer
2°/0.1° for tilt < 20°
Liquid level
0.2°/0.1°
30°
Automatic detect
Piezoresistive
0-100 m (inquire for options)
0.5% FS / 0.005% of full scale
9 MB, can add 4/16 GB
9*Ncells + 32 bytes
N/A
Nsamples * 24 + 60 bytes
Stop when full (default) or wrap mode
±1 min/year
4 weeks
RS-232 or RS-422
300-115200 Bd
600/1200 kBd for both RS-232 and RS-422
Handled via "Aquadopp" software, ActiveX®function calls, or direct

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commands with binary or ASCII data output

Power C input laximum peak current vg. power consumption leep current ransmit power	Deployment planning, instrument configuration, data retrieval and conversion (for Windows®). 9-15 V DC 3 A 0.05 W < 100 µA 0.3-20 W, 3 adjustable levels
C input laximum peak current vg. power consumption leep current	3 A 0.05 W < 100 μA
laximum peak current vg. power consumption leep current	3 A 0.05 W < 100 μA
vg. power consumption leep current	0.05 W < 100 μA
leep current	< 100 μΑ
•	
ransmit power	0.3-20 W, 3 adjustable levels
Batteries	
attery capacity	50 Wh (alkaline or Li-ion), 165 Wh (lithium), Single or dual
ew battery voltage	13.5 V DC (alkaline)
Environmental	
perating temperature	-5 to +40 °C
torage temperature	-20 to +60 °C
hock and vibration	IEC 721-3-7
MC approval	IEC 61000
epth rating	300 m
Connectors	
ulkhead	MCBH-8-FS
able	PMCIL-8-MP on 10 m polyurethane cable
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Weight	
/eight in air	2.2 kg
/eight in water	0.2 kg

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