

## Acoustic Doppler Current Profiler

Merk	:	RoweTech Seawave
Kelengkapan	:	<ul style="list-style-type: none"> <li>• ADCP Sensor</li> <li>• Power and Communication Cable</li> <li>• Power Adaptor</li> <li>• Optional Ethernet Cable</li> <li>• Converter RS422 to USB</li> <li>• USB to Serial</li> <li>• USB Software and manual</li> <li>• Toolkit</li> </ul>
Fungsi	:	<ul style="list-style-type: none"> <li>- Pengukuran profiling arus secara real time</li> <li>- Pengukuran profiling arus secara autonomous</li> <li>- Pengukuran gelombang baik tinggi dan arah</li> <li>- Pengukuran Profiling arus menggunakan perahu/kapal yang bergerak</li> </ul>

### Spesifikasi

Frequency	:	600 KHz
Mode Pemasangan	:	<ul style="list-style-type: none"> <li>- Upward looking</li> <li>- Downward looking (can used with moving boat)</li> </ul>
Mode Profiling	:	<ul style="list-style-type: none"> <li>- Broadband (High Precision)</li> <li>- Narrow Band (Long Range)</li> </ul>
Range	:	<ul style="list-style-type: none"> <li>- NB : 70 – 75 m with 2 m cell size</li> <li>- BB : 45 – 50 m with 2 m cell size</li> </ul>
Velocity Measurement Precision (Vertical Resolution @cell size)	:	0.01 cm/s
Velocity Accuracy (typical)	:	± 0.25%, ±2 mm/s
Velocity range	:	±5 m/s, maximum ±20 m/s
Number of Depth Cell	:	1 – 200

Cell Size	:	2.0 cm minimum
Minimum Blanking Distance	:	16 cm
Bottom Track	:	Yes (minimum 0.3m, maximum 130 m)
Number of Transducers	:	4 Beams Janus Configuration, 5 <sup>th</sup> beam is vertical
Beam Angle	:	20°
Additional Sensors		
- Compass		
- Range	:	1 - 360°
- Resolution	:	0.01°
- Accuracy	:	1° RMS
- Pitch/Roll		
- Range	:	Roll +/- 180°, Pitch +/-90°
- Resolution	:	0.01°
- Accuracy	:	< 1° RMS
- Temperature		
- Range	:	-5°C - +70°C
- Accuracy	:	+/- 0.15°C
- Pressure		
- Range	:	Selectable
- Accuracy	:	+/- 10% Range
Material	:	Acetal
Power Supply		
- Input Voltage Range	:	12 – 36 VDC, 3A
- Typical Power Consumption	:	30 W
- Internal battery	:	Self contained, 28 – 30 VDC 38 C-cell batteries, Fuse 5A
Depth Rating	:	300 m
Operating Temperature	:	-5°C to +45°C
Storage Temperature	:	-30°C to +60°C

Output Data		
- Communication	:	RS-485, RS-232, 100Base T Etehernet
- Internal Recording	:	32 Gbytes
Waves		
- Wave Height	:	$H_x$ , 1% of measured value
- Period	:	$T_p$ , 1 – 100 s
- Direction	:	$D_p$ , accuracy 2 deg
- Sample rate	:	2 Hz typical, including vertical beam

RoweTech Seawave

 A white, cylindrical sensor with five red circular ports on its side, resting on a white surface.	 A coiled black cable with a green connector at one end, lying on a white surface.
<p>RoweTech SeaWave</p>	<p>Power and Communication Cable</p>
 A coiled green Ethernet cable with a black connector at one end, lying on a white surface.	 A black power adaptor with a power cord and a connector, lying on a white surface.
<p>Optional Ethernet Cable</p>	<p>Power Adaptor</p>
 A package of USB to Serial dan USB Software, labeled "US232R-100-BULK", with a small metal case containing a USB drive.	 A black cable with a USB connector at one end, lying inside an open cardboard box.
<p>USB to Serial dan USB Software</p>	<p>Converter RS-422 to USB</p>
 A toolkit containing various tools, including a wrench and a screwdriver, lying on a white surface.	 The RoweTech SeaWave sensor in a black carrying case, with a green Ethernet cable and a power adaptor also visible inside.
<p>Toolkit</p>	