Peacock - UVP The multi-purpose module for velocity and echo profiling

OEM Ultrasonic Velocity Profile Measurement for Process and Environmental Monitoring

Features

- Velocity and backscattered acoustic intensity measurement by pulsed coherent Doppler
- A complete UVP in a single high reliable board
- Very small size and low weight for embedded applications
 - Very low power consumption
 - High quality measurements
 - Embedded processor for automatic gain control, static echo filter

Applications



- Embedded applications (drones, AUV, robots...)...
- Flow mapping in small rivers and open channels
- Bathymetry in rivers and lakes down to 10 m
- Industrial fluid processing

Our devices are available for rent, for lease and for sale.

Contact



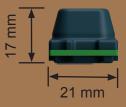
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Technical specifications





specifications	
Measurement Performances	
Sampling range	0.05 to 10 m
Number of cells	1 to 200
Cell size / resolution	0.20 to 30 mm / down to 0.73 mm
Velocity range	[-4; 4] m/s (under Nyquist condition)
Velocity accuracy	0.2 to 1%
Sampling rates	Up to 20 Hz
Signal processing	Coherent Doppler with phase coding
Temperature sensor and acce	elerometer for pitch and roll measurement
Acoustics	
Number of channels	2 for transducers in emission/reception
Frequency range	400 kHz to 3.6 MHz
Beam width	1.5° to 6° (depending on the transducer and on the emitting frequency)
Physical	
Dimensions	85 x 21 x 17 mm ²
Weight	23 g
Data Management	
Communication	Modbus protocol over RS485 or USB
Internal data logger	NA (optional : logger, GSM modem, Wifi, Bluetooth)
Velocity	Velocity profile data (relative to acoustic beam directions) per beam and cell
Echo amplitude	Backscattered echo RMS amplitude per beam and cell
Velocity standard deviation	Standard deviation of the velocity per beam and cell
Data quality	Profile data quality indicator per beam and cell
Power	
Input	5V DC ± 10%
Consumption	0.5 to 1W
ON/OFF LED	0.6 s