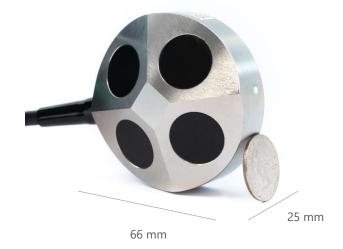


WL-21035DVL A50



DESCRIPTION

The DVL A50 is – by far – the world's smallest commercially available Doppler Velocity Log.

The A50 is establishing a new market standard with its high performance, ultra-small 4 beam setup, integrated AHRS/IMU assist, open interface protocol and low cost.

The DVL is designed with small ROVs/AUVs in mind where it can be mounted without adding significant weight or drag to the vehicle. The A50 is the perfect fit for small vehicles looking for professional navigation features. The combination of low cost and high performance is also making it very attractive for much larger vehicles.

KEY FEATURES

- Adaptive algorithms enabling a very wide operational altitude of 0.05 – 50 meters.
- Easily integrated using the built-in Ethernet and Serial 115200 baud UART 3,3V interface.
- Fully self-contained with no requirements for external computers, controllers or devices.
- Integrated status LED to confirm that the unit is powered on and if it has bottom lock.
- Extremely small size enabling easy mounting and integration with other equipment.
- Low power consumption.
- Highly robust operation, also in areas with varying seabed conditions.
- Integrated AHRS/IMUs for increased accuracy.
- Web based GUI with comprehensive diagnostic features.

W-MK-20001-5 2020-12-11



MECHANICAL

ACOUSTIC / PERFORMANCE

Device diameter : 66 mm Transducer frequency : 1 MHz

Device height : 25 mm Transducer setup : 4-beam convex Janus

array Device weight (air) : 250 grams

: 22.5 degrees Transducer beam angle Device weight (submerged): 185 grams

Ping rate : 4-26 Hz Depth rating : 300 meters

(adaptive to altitude) : Stainless Steel 316 Material

Sensor assist : Integrated AHRS/IMU (housing) (Yost Labs TSS-NANO) : PEEK

Min altitude : 5 cm (transducer caps)

Operating temperature : -5 to 60 °C Max altitude : 50 meters

> (> 35 m is dependent on seabed conditions, salinity levels etc.)

ELECTRICAL / INTERFACE

Max velocity : 2.6 m/s Input voltage : 10-30 V Velocity resolution : 0.1 mm/s

: 0.25A at 12V Power consumption : ±1.01 % Long term accuracy Power-on current surge : 1.25A at 12V

: ±0.1 % Physical interface : 3 m cable with (Performance version) interface module,

8 wires, PUR

pwr/serial/Ethernet

APPROVALS Indicator : Status LED

Power, Lock

Communication : UART 115200 baud

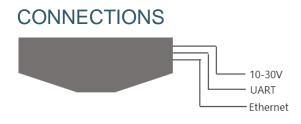
serial 3,3V

: Ethernet

Protocols : Water Linked API

CE

ORDERING GUIDE





Performance

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