DVL A125

• WL-21037



DESCRIPTION

The DVL-A125 is the world's smallest long range Doppler Velocity Log. With an extremely wide operating altitude of 5 cm to 125 meters, the A125 is the swiss army knife of DVLs!

With a maximum velocity of 9 meter per second, the A125 is the ideal DVL not only for ROVs but also for USVs and fast AUVs.

While the A125 is the perfect fit for small and medium sized vehicles looking for professional navigation features, the combination of affordability and high performance are also making it very attractive for much larger vehicles.

KEY FEATURES

- Adaptive algorithms enabling a very wide operational altitude of 0.05 125 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.
- Small size enabling easy mounting and integration with other equipment.
- Low power consumption.
- Highly robust operation, also in areas with varying seabed conditions.
- Web based GUI with comprehensive diagnostic features.



MECHANICAL

| Device diameter | 125 mm |
|---------------------------|---|
| Device height | 30 mm |
| Device weight (air) | 986 grams |
| Device weight (submerged) | 730 grams |
| Depth rating | 3000 meters |
| Material | Stainless Steel 316 (housing) PEEK (transducer caps) |
| Operating temperature | -5 to 60 °C |

ELECTRICAL / INTERFACE

| Input voltage | 10-30 V |
|------------------------|--|
| Power consumption | 0.25 A at 12V |
| Power-on current surge | 1.25 A at 12V |
| Physical interface | 8 wires (pwr/serial/ Ethernet), 3 meter (PUR 6.7 mm diameter) cable with interface module |
| Indicator | Status LED (Power, Lock) |
| Communication | UART 115200 baud serial 3,3V Ethernet |
| Protocols | Water Linked API |

ACOUSTIC / PERFORMANCE

| Transducer frequency | 420 kHz |
|-----------------------|---|
| Transducer setup | 4-beam convex Janus array |
| Transducer beam angle | 22.5 degrees |
| Ping rate | 1-26 Hz (adaptive to altitude) |
| Min altitude | 5 cm |
| Max altitude | 125 meters (Performance at altitudes > 110 meters is dependent on sea- bed conditions, salinity levels etc.) |
| Max velocity | 9 m/s |
| Velocity resolution | 0.1 mm/s |
| Long term accuracy | ±1.01 % (Standard version) ±0.1 % (Performance version) |

APPROVALS

CE

ORDERING GUIDE



CONNECTIONS



Water Linked reserves all rights to this document and the information contained herein. Products, names, logos and designs described herein may in whole or in part be subject to intellectual property rights. The information contained herein is provided "as-is". No warranty of any kind, either expressed or implied, is made in relation to the accuracy, reliability, fitness for a particular purpose or content of this document. This document may be revised by Water Linked at any time. For most recent documents, please visit www.waterlinked.com Copyright © 2021, Water Linked.

Water Linked AS Stiklestadveien 1 N-7041 TRONDHEIM, NORWAY

Phone: +47 901 15 038 E-mail: info@waterlinked.com



facebook.com/waterlinked

linkedin.com/company/waterlinked

youtube.com/c/waterlinked