

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 PDO

CONNECTIONS



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

