WL-21022
LOCATOR-S1

DESCRIPTION
The Locator-S1 is a digital hydro acoustic locator device with an internal GPS based time sync module.

The Locator-S1 does not require tether integration for top-side communication. It only requires external power 10-18V to be provided from the underwater vehicle.

Some Locator-S1 attributes can be configured using an integrated i2C interface. This configuration is optional and not required for normal operation.

Before deployment in water, the Locator-S1 needs to achieve a GPS lock. The integrated status-LED shows the condition of the GPS lock.

BENEFITS
- GPS based sync removes all tether requirements enabling very easy integration with any ROV.
- Extremely small size making it perfect for even the smallest underwater vehicles.
- Highly robust operation in areas with reflections (shallow water, around installations etc.)

CONTENTS
- Locator-S1 with default 1 meter cable, no connector.

FAMILY
The Locator-S1 is part of the Water Linked Underwater GPS System.

WL-20118 MASTER-D1
The Master D1 is the digital position computing board. The Locator-S1 time-syncs with the Master-D1 using GPS on both sides. The Master-D1 connects to your PC. The Master-D1 is a requirement in a positioning system.

WL-21005 RECEIVER-D1
The Receiver-D1 is a digital hydro acoustic receiver that is designed to receive the signal from a Water Linked Locator. A minimum of 3 Receiver-D1s are required to get the position of a Locator-S1.
**MECHANICAL**

- Depth rating: 300 m
- Device length: 76.6 mm
- Device diameter: 30 mm
- Device weight in air: 52 g
- Operating temperature: -10 to 60 °C

**ELECTRICAL**

- Input voltage: 10–18 V
- Input current: 60 mAh at 12V

**ACOUSTIC**

- Range: 100 meter
- Directivity: Omnidirectional

**CONNECTORS**

- Cable type: PUR 6.3 mm
- Connector: None
- Wires: 2x power 10-18V, 2x UART 3.3V

**APPROVALS**

- RoHS compliant
- CE

**BLOCK DIAGRAM**

![Block Diagram]

**DIMENSIONS**

![Dimensions Diagram]

**ORDERING GUIDE**

**CABLE LENGTH**

- **001**: 1 m
- **005**: 5 m
- **010**: 10 m

**PART NUMBER**

- **WL-21022 - 01**