

## WL-21005 RECEIVER-D1



### DESCRIPTION

The Receiver-D1 is a digital low-noise, high sensitivity hydro acoustic receiver that converts acoustic waves to a digital data stream.

The receiver is equipped with a wideband analog front-end with a large dynamic range followed by advanced digital signal processing functionality.

The electrical interface complies with the Water Linked D1 communication standard.

### BENEFITS

- Extremely small footprint enabling easy integration in other equipment.
- Highly robust operation in areas with reflections (shallow water, around installations etc.)

### CONTENTS

- Receiver-D1 with customer specified cable length
- Optional connector

### FAMILY

The Receiver-D1 is part of the Water Linked Underwater GPS System.

#### WL-20118 MASTER-D1

The Master D1 is the digital position computing board.

The Receiver-D1 connects to the Master-D1 using a cable. The Master-D1 connects to your PC. The Master-D1 is a requirement in a positioning system.



#### WL-21009 LOCATOR-A1 / WL-21016 LOCATOR-D1

The Locator-A1/D1 are hydro acoustic locator devices that transmit acoustic waves which the Receiver-D1s will receive. A minimum of 3 Receiver-D1s are required to get the position of a Locator-A1/D1.



## MECHANICAL

|                       |                |
|-----------------------|----------------|
| Depth rating          | : 300 m        |
| Device length         | : 71,4 mm      |
| Device diameter       | : 20 mm        |
| Device weight in air  | : 36 g         |
| Operating temperature | : -10 to 60 °C |

## ELECTRICAL

|               |           |
|---------------|-----------|
| Input voltage | : 10-18 V |
| Input current | : 35 mA   |

## ACOUSTIC

|             |                   |
|-------------|-------------------|
| Range       | : 100 meter       |
| Directivity | : Omnidirectional |

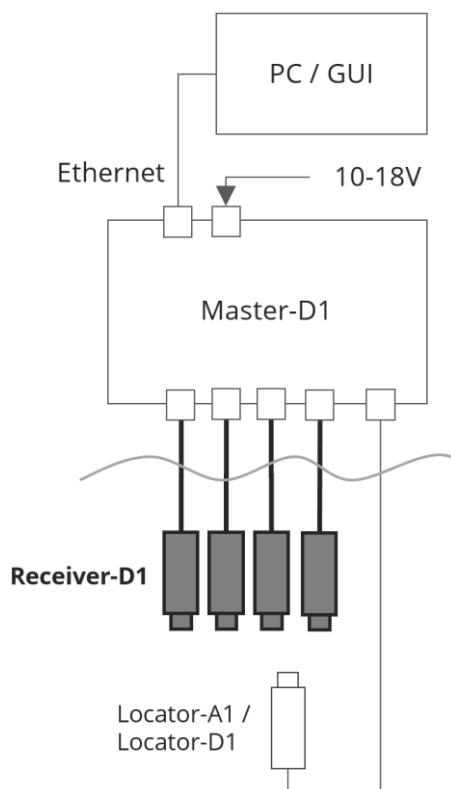
## CONNECTORS

|                  |                                    |
|------------------|------------------------------------|
| Max cable length | : 100 m                            |
| Signaling        | : 2x twisted pairs                 |
| Cable type       | : PUR 6,3 mm                       |
| Cable connector  | : Binder Series-770 (IP67) or none |

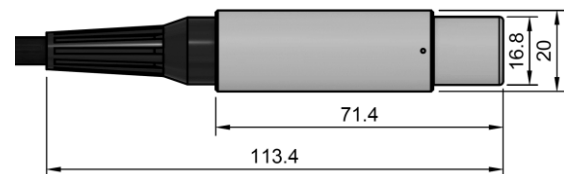
## APPROVALS

RoHS compliant  
CE

## BLOCK DIAGRAM



## DIMENSIONS



## ORDERING GUIDE

| WL-21005 - N 001      |                        |
|-----------------------|------------------------|
| <b>PART NUMBER</b>    |                        |
| <b>CONNECTOR TYPE</b> |                        |
| <b>B</b>              | Binder Series-770 IP67 |
| <b>N</b>              | None                   |
| <b>CABLE LENGTH</b>   |                        |
| <b>001</b>            | 1 m                    |
| <b>005</b>            | 5 m                    |
| <b>010</b>            | 10 m                   |
| <b>025</b>            | 25 m                   |
| <b>050</b>            | 50 m                   |
| <b>100</b>            | 100 m                  |

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