



LD5 Integrated Mobile Unit



LD5 Integrated Mobile Unit

Reliable Positioning Unit

VERIPOS LD5 is a ruggedised integrated sensor with a modern, user-friendly interface designed to meet a range of demanding offshore positioning requirements.

The VERIPOS LD5 is a robust and reliable positioning unit which is available in a number of configurations, from a basic L-Band demodulator to a fully integrated mobile positioning unit with demodulator and multi-frequency GNSS receiver. The unit can easily be upgraded to different configurations depending on your requirements. Installation and set up of the LD5 is simple and straightforward. The onboard colour display and intuitive menu structure make the configuration and operation of the LD5 user friendly. The display also provides the user with valuable real-time position and status information.

LD5 Features

The LD5 utilises VERIPOS positioning algorithms and supports all VERIPOS services which can produce position accuracies from metre to better than $<5\text{ cm}$ at 2σ (95%). The internally installed SD card permits logging of data, allowing post-processing and post-mission analysis if required.

The LD5 can also be used as a sensor to output raw GNSS measurements and VERIPOS augmentation data in RTCM format. This can be used by external visualisation or quality control software, such as VERIPOS Quantum. Data can be output through three galvanically isolated serial ports configurable for either RS232 or RS422. Data is also available through a USB port or an Ethernet port. The LD5 is suitable for a wide range of applications including hydrographic/offshore surveying, dredging, offshore construction, seismic exploration and dynamic positioning.

Technical Specifications

Physical Characteristics

Receiver Size:
 Aluminum Housing, 90 mm (H) x 158 mm (W) x 227 mm (D)
 Weight: 2.25 kg
 Display: MMI colour screen and keypad
 Operating Temp: -15°C to 55°C
 Storage Temp: -20°C to 70°C
 Input Voltage: 12 to 24V DC
 Consumption: Basic Configuration - <4 W
 Intermediate Configuration - <7.2 W
 Enhanced Configuration - <7.5 W

Data Ports and Interfaces

- 3 Serial Connectors: 9 way D EIA-232/422
- Galvanically Isolated
- USB Device-Type B Socket
- Ethernet-RJ45
- 1PPS-BNC

VERIPOS L-Band Demodulator

Anetna Input: 1525 to 1559 MHz
 Connector: TNC

GNSS Options

Constellations: GPS, GLONASS, BeiDou, Galileo and QZSS
 GNSS Based Heading Solution
 0.08 deg accuracy @ 2 m separation
 0.05 deg accuracy @ 4 m separation

MF (IALA) Receiver

Dual Channel SBX-4

System Configuration

Basic: L-Band demodulator only
 Intermediate: L-Band and GNSS module
 Enhanced: L-Band, GNSS and MF module
 Option for Intermediate and Enhanced - GNSS Heading Solution



The LD5 Integrated Mobile Unit on-board colour display.



The LD5 Integrated Mobile Unit data ports.

Regulatory and Environmental

CE Marking Directive 93/68/EEC
 FCC Parts 15 [14] Class B
 IP66 Rating
 EN60945:2002 (Protected Equipment)
 EU RoHS Directive 2011/65/EU
 EU WEEE Directive 2002/96/EC

**Specifications subject to change without notice*

Contact Hexagon | VERIPOS

sales@veripos.com +44 1224 965800
 For the most recent details of this product visit veripos.com

©2020 VERIPOS. All rights reserved. VERIPOS is part of Hexagon. All trademarks or servicemarks used herein are property of their respective owners. VERIPOS makes no representation or warranty regarding the accuracy of the information in this publication. This document gives only a general description of the product(s) or service(s) offered by VERIPOS, and, except where expressly provided otherwise, shall not form part of any contract. Such information, the products and conditions of supply are subject to change without notice.