

veratron V
NMEA 2000
Capacitive
Level Sensor



veratron NMEA 2000 Capacitive Level Sensor Instruction Manual

[Home](#) » [veratron](#) » veratron NMEA 2000 Capacitive Level Sensor Instruction Manual 

Contents

- [1 veratron NMEA 2000 Capacitive Level Sensor](#)
- [2 Technical specifications](#)
- [3 Product Usage Instructions](#)
- [4 DIMENSION](#)
- [5 FAQ](#)
- [6 Documents / Resources](#)
 - [6.1 References](#)
- [7 Related Posts](#)

veratron V

veratron NMEA 2000 Capacitive Level Sensor



Technical specifications

| Attribute | Description |
|---------------------|-----------------------------------|
| Connector Type | NMEA 2000® Micro-C 5-pin M12 Male |
| IP Protection Class | IP X9K |
| Rated Voltage | 12V (NMEA 2000®) |
| NMEA 2000 LEN | 2 |
| NMEA 2000 Data | PGN |
| PGN Description | 127505 Fluid Level |

Product Usage Instructions

Before assembly

NOTICE: Short circuit. Cable burning, battery explosion. Remove the ignition key and detach the battery negative pole terminal.

Purchase an NMEA 2000 drop cable with five-pin M12 connector (max. drop cable length 6m, male-female connectors).

Installation position

NOTICE: always check the tank depth compared to sensor height. The sensor must always be installed in the upper part of the tank.

- Install the sensor in the installation aperture provided for by the tank manufacturer (installation flange).
- The most favorable point for the installation aperture is in the center of the tank cover in the case of rectangular tank, and at about one third towards the deep side in the case of other tanks.

Drilling the tank

- If an installation aperture has to be made, the water tank must first be emptied completely. If possible, remove the tank.

- First drill small holes at the installation apertures. Use tapered drills, compass saws, fretsaws or files to enlarge and complete the hole. Deburr the edges. The safety instructions of the hand tool manufacturer must be observed.
- Clean the tank of residue from drilling, filing and sawing. When installation is finished, refill the water tank with fresh water.

Cleaning the sensor

- The transducer must be cleaned from time to time in order to ensure its reliable operation in the waste-water tank.
- For the purpose of cleaning, please remove the tank's transducer and rinse the two measuring probes under running water. Carefully remove any stubborn fouling using a soft brush.
 - Be careful not to damage the white coating of the probes while performing this work. The tank should be cleaned with water after pumping it empty.

Box Contents

The package includes:

- Sensor
- Connector
- Instruction Manual

1.

2.

3.

4.

5.

6.

| #1 | |
|----|--------|
| | Tank 1 |
| | Tank 2 |
| | Tank 3 |
| | Tank 4 |

| #2 | |
|----|-------------|
| | Live Well |
| | Black water |
| | Waste Water |
| | Fresh Water |

Fast blinking

Slow blinking

ON

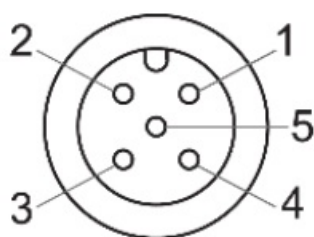
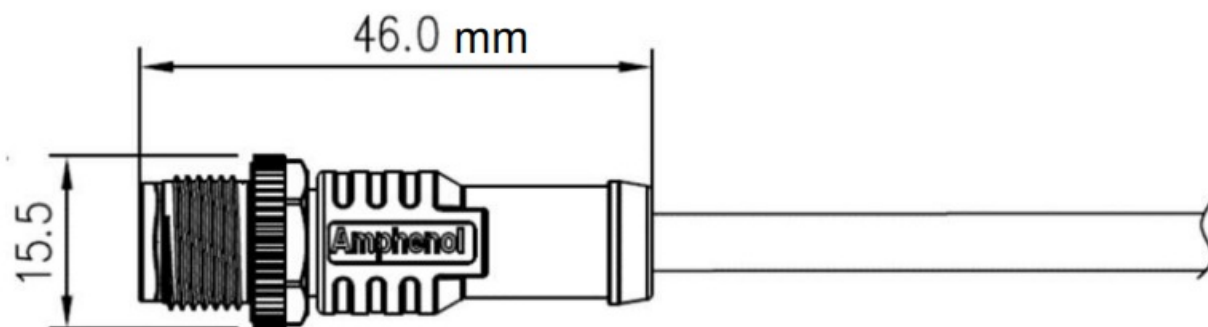
OFF

OK

ERROR

Further configurations are possible but require the Veratron Configuration Tool. This enables the installation of up to 15 tanks or tanks with non-linear filling curves.

DIMENSION



| Pin | |
|-----|---------------|
| 1 | Shield |
| 2 | NET-S (V+) |
| 3 | NET-C (V-) |
| 4 | NET-H (CAN H) |
| 5 | NET-L (CAN L) |

www.veratron.com/downloads

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FAQ

Q: Can I use this sensor with a non-NMEA 2000 system?

A: No, this sensor is specifically designed for use with NMEA 2000 systems only.

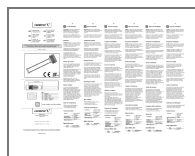
Q: What is the maximum length for the drop cable?

A: The maximum length for the drop cable is 6 meters.

Q: How often should I clean the sensor?

A: The sensor should be cleaned periodically to ensure reliable operation; follow the provided cleaning instructions.

Documents / Resources



[veratron NMEA 2000 Capacitive Level Sensor](#) [pdf] Instruction Manual
NMEA 2000 Capacitive Level Sensor, NMEA 2000, Capacitive Level Sensor, Level Sensor

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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