LimniDB®

Piezoresistive Pressure Transmitter for Level Measurements

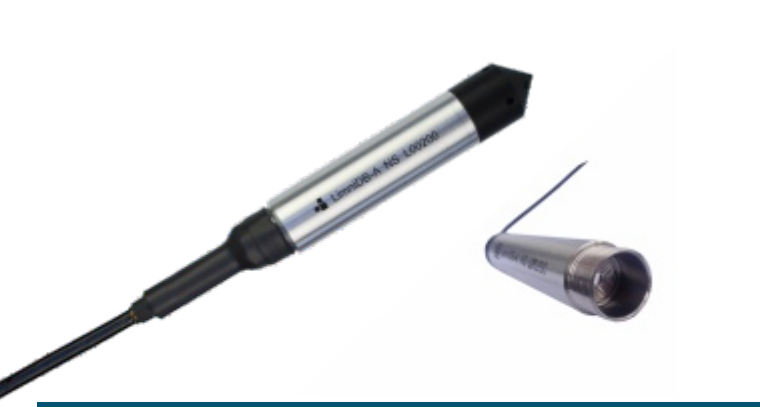
dualBASE®
decoding the environment

Hydrology
Meteorology
Agrometeorology
Sun
Wind

3 YEARS WARRANTY

LimniDB®

Water level sensor



APPLICATIONS

Hydrology | Meteorology | Agrometeorology | Sun | Wind

OVERVIEW

The **LimniDB®** uses a piezoresistive sensor with temperature compensation and offers excelent linearity. It has low power consumption and three types of signal output: 4-20mA, RS-485 and SDI-12. Available in absolute and relative pressure.

SPECIFICATIONS

Measurement Range[1]
0 to 20 mH2O (water column in meter)

Resolution
0,001 mH2O (1 mm)

Operation Temperature Range
-40 to 80 °C

Compensated temperature range
-10 to 60 °C

Maximum accuracy[2]
± 0,05 % F.E. @ +10 to 40ºC
± 0,1 % F.E. @ - 40 to 80ºC

Maximum accuracy @ 20 ºC
0,002 mH2O (2 mm) @ 20 mH2O

Supply Voltage
8 to 28 Vcc

Consumption
8 mA max (more loop 4 to 20 mA)

Digital Output[3]
RS-485 and SDI-12

Anolog Output
4 to 20 mA

Units
cH2O (water column in centimeters), mH2O, ft, mBar and PSI.

Protection
IP68

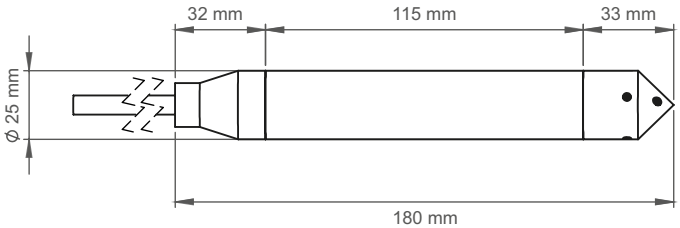
PRODUCT DETAILS

- **316L stainless steel body;**
- **Piezoresistive sensor with temperature compensation;**
- **Anolog and digital signal outputs, which increase flexibility to use in multiple applications;**
- **Polyurethane cable with UV filter and Kevlar;**
- **Customized cable size;**
- **Type of measurement available: absolute or relative.**

NOTE: **1 -** Available in other ranges; **2 -** Range factor k=2 for a 95% confidence level;
3 - It has 3 output interfaces, but it is not possible to use RS-485 and SDI-12 simultaneously;

- **LimniDB®-A:** Absolute Pressure. Requires a barometer to compensate for atmospheric pressure;
- **LimniDB®-D:** Relative Pressure. The atmospheric pressure is compensated by a venting capillary tube with in the electric cable.
- **LimniDB®-E:** Available in special versions. To order please contact us.

DIMENSIONS



Features may change without prior notice. Mar/2019.

MANUFACTURER

Manufacturer: Dualbase Tecnologia Eletrônica LTDA.
Brand: Dualbase
Model: LimniDB®
Type: Piezoresistive Pressure Transmitter for Level Measurements

REPRESENTATIVE