

## Hydrostatic Level Transmitter

Issue Number: 7.0 Date of Issue: 26/01/2017



### **Features & Benefits**

- Compact design
- Simple installation
- Stainless steel construction

### **Technical Overview**

The LS-712 range of submersible water level transmitters provides continuous hydrostatic level measurement up to 10.2m of water column. They are suitable for many applications such as water tanks, wells, sumps and ponds.

Transmitters have a vented cable which provides an atmospheric reference for the sensor, which is necessary for ensuring repeatable, precision depth measurements under the most adverse conditions.

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4-20mA Output:

**LS-712-A** Hydrostatic level transmitter, 0-300mbar, 5 meter

cable

**LS-712-B** Hydrostatic level transmitter, 0-1000mbar, 15

meter cable

0-10Vdc Output:

**LS-712-A-V** Hydrostatic level transmitter, 0-300mbar, 5 meter

cable

**LS-712-B-V** Hydrostatic level transmitter, 0-1000mbar, 15

meter cable

## **Specification**

Output:

LS-712-x 4-20mA LS-712-x-V 0-10Vdc

Supply voltage:

4-20mA 10 to 30Vdc 0-10Vdc 12 to 30Vdc

Measuring range:

LS-712-A 3.06m LS-712-B 10.2m

Response time < 2ms

Load:

4-20mA  $\leq \frac{Supply \ voltage \ -7V}{0.07A} (Ohm)$ 

0-10Vdc >10Kohm

Current consumption:

4-20mA <20mA 0-10vdc <5mA

Electrical connections Via flying lead

Accuracy:

Characteristic line ±0.8% fs @ 25°C

Resolution 0.1% fs Thermal characteristic  $\pm 0.2\%$  fs/10k

Maximum pressure 4.5bar

Materials:

Case Stainless steel 1.4404/AISI 316L

Cable PE-HD
Sealing material EPDM
Temperature -40 to 80°C

Dimensions:

Sensor 116 x 23.4mm Cable 5 or 15m

Protection IP68

CE Conformity CE Marked to EN 61326-2-3, EMC

Country of origin Switzerland



At the end of the products useful life please dispose as per the local regulations.
Do not dispose of with normal household waste. Do not burn.

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The products referred to in this data sheet meet the requirements of EU Directive 2014/30/EU



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LS-712

### Installation

The level pressure transmitter LS-712 is installed hanging downwards on the cable. In moving media, the transmitter must be fixed to prevent measuring errors. This can be done with a guide tube. Make sure that the inlet openings on the protective cap of the level pressure transmitter are not soiled in order to guarantee perfect functioning.

#### **Connections**

LS-712-x (4-20mA):

Brown 10 - 30Vdc Green 4-20mA signal

LS-712-x-V (0-10Vdc):

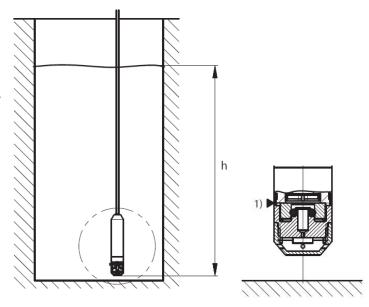
Brown 12 - 30Vdc White 0V (Ground) Green 0-10Vdc signal

## Level Measurement

h Fluid level

1) Measurement ref height

The transmitter has been pre-calibrated, and cannot be re-calibrated.



## **Operating conditions**

The following points should be noted particularly when using the device:

- The maximum permissible pressure pmax of the transmitter may not be exceeded.
- The temperature of the medium in contact with the transmitter may not exceed 80°C.
- Avoid formation of ice on the process input of the transmitter because this could damage the diaphragm.
- Prevent soiling of the transmitter input.
- Avoid obstruction to the vent pipes in the special cable (influences the measuring accuracy).