



Features and 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.

Product Codes

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	$\leq \frac{\text{Supply voltage}}{-7V}$ (Ohm)
	0-10Vdc	>10Kohm
Current consumption:	4-20mA	<20mA
	0-10vdc	<5mA
Electrical connections		Via flying lead
Accuracy:	Characteristic line	$\pm 0.8\%$ 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
Country of origin		Switzerland
Conformity		EMC, CE & UKCA Marked

WEEE Directive:



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.



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

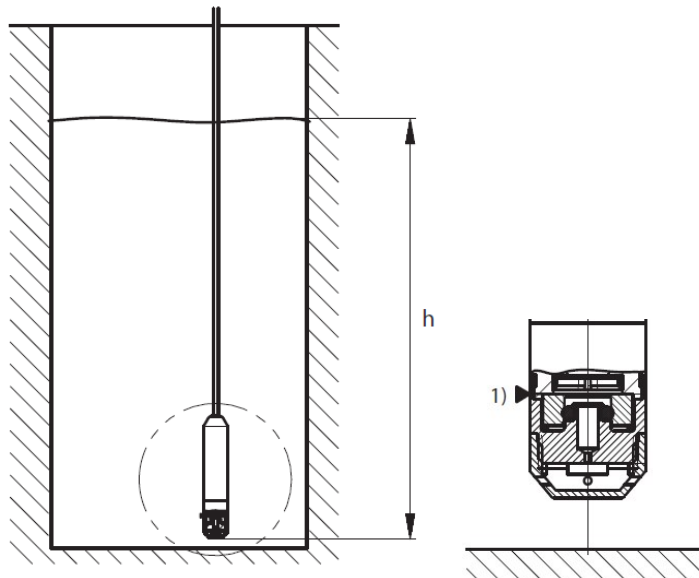
LS-712-x-V (0-10Vdc):

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 p_{max} 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).

Whilst every effort has been made to ensure the accuracy of this specification, Sontay cannot accept responsibility for damage, injury, loss or expense resulting from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.