



Features and Benefits

- Piezoresistive silicon sensor
- Compact design
- Simple installation
- Stainless steel construction

Technical Overview

The LS-SLP level probe is used for the continuous hydrostatic level measurement of liquids. Filling heights between 2.54 and 10.2 mWS (water column) can be achieved in ventilated tanks.

When the level probe is immersed into a liquid, a liquid column emerges above the probe. The liquid column increases as the probe is immersed deeper into the liquid and creates a hydrostatic pressure on the measuring system by the force of its weight. The measured pressure is transferred as a standard signal. The signal is linearly proportional to the rising liquid column.

Any variations in air pressure are automatically compensated for using a protective hose and the surrounding pressure is therefore taken into account.

Product Codes

4-20mA Output:

LS-SLP-0.25	Hydrostatic level transmitter, 0-250mbar, 5 meter cable
LS-SLP-0.4	Hydrostatic level transmitter, 0-400mbar, 10 meter cable
LS-SLP-1	Hydrostatic level transmitter, 0-1000mbar, 25 meter cable

0-10Vdc Output:

LS-SLP-0.25-v	Hydrostatic level transmitter, 0-250mbar, 5 meter cable
LS-SLP-0.4-v	Hydrostatic level transmitter, 0-400mbar, 10 meter cable
LS-SLP-1-v	Hydrostatic level transmitter, 0-1000mbar, 25 meter cable

Specification

Output:	LS-SLP-x	4-20mA
	LS-SLP-x-V	0-10Vdc
Supply voltage:	4-20mA	10 to 30Vdc
	0-10Vdc	11.5 to 30Vdc
Measuring range:	LS-SLP-0.25	2.54m
	LS-SLP-0.40	4.07m
	LS-SLP-1	10.20m
Current consumption		25mA
Electrical connections		Via flying lead
Accuracy @ 20°C		0.5% MSP
Maximum pressure (burst):	0 to 250mbar	1bar
	0 to 400mbar	1.6bar
	0 to 1000mbar	4bar
Materials:	Case	Stainless steel 304
	Process connection	Stainless steel 316
	Membrane	Stainless steel 316
	Protective hose	PE
Cable		Max. bending radius 120mm approx..
Temperature		0 to 50°C
Storage		-20 to +80°C
Dimensions:	Sensor	80 x 27mm
	Cable	5, 10 or 25m
Protection		IP68
Country of origin		Germany
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-SLP 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-SLP-x (4-20mA):

White	10 - 30Vdc
Brown	4-20mA signal

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

White	11.5 - 30Vdc
Brown	0V (Ground)
Green	0-10Vdc signal

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 50°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).