

# Model LV39 Over Voltage Submersible Liquid Level Transmitters



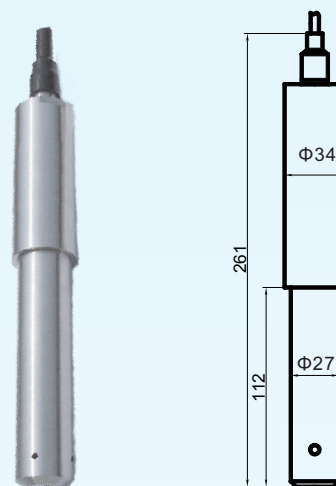
Based on BCM piezoresistive technology, model LV39 submersible liquid level transmitters are designed for gauge pressure measurements. Made from 316L stainless steel with rigid and robust construction, and with cable with vent hose for submersible application, LV39 level transmitters are suitable for liquid level applications. Moreover, equipped with lightning protector, LV39 level transmitters provide a solution for applications in areas subject to thunderstorm weather.

LV39 level transmitters are made of a Wheatstone bridge circuit. Various output signals, including millivolts signal (80 mV@1 mA) and amplified signals (4~20 mA, 0~5V or 0~10 V), are available. The measuring accuracy is up to 0.25 %fso (fso=full scale output). These transmitters possess low temperature coefficients of 0.02 %fso/°C for both Zero and Span within the compensated temperature range (0~50 °C), and long-term stability better than 0.3 %fso/year.

## Features:

- integrated lightning protector
- wide measuring ranges: 0~2, ..., 0~200 mH<sub>2</sub>O
- various output signals:
  - transducers: full scale output 80 mV@1mA
  - transmitters: 4~20 mA, 0~5V or 0~10 V
- measuring accuracy: 0.25 %fso (standard), 0.5 %fso
- materials: 316L SS (pressure membrane); 321 SS (housing)
- housing environment protection: IP 68

## Dimensions:



## Specifications:

parameters	units	specifications
measuring media		liquids which are compatible with 316L SS
measuring ranges	mH <sub>2</sub> O	0~1, 0~2, 0~5, 0~10, 0~20, 0~30, 0~50, 0~100, 0~200
overload pressure	%FS	150
output signal	transducers	mV
	transmitters	mA or Vdc
power supply	transducers	mA
	transmitters	Vdc
accuracy	%FSO	± 0.25 (standard), ± 0.5
long-term stability	%FSO/year	< ± 0.3
response time	ms	<1 (10% ~ 90% of leading edge)
storage temperature range	°C	-40 ~ +100
operating temperature range	°C	0 ~ +80
compensated temperature range	°C	0 ~ +50
temperature coefficient of SPAN	%FSO/°C	± 0.02
temperature coefficient of ZERO	%FSO/°C	± 0.02
input resistance	transducers	Ω
output resistance	transducers	Ω
load resistance	transmitters	Ω
insulation resistance	MO	> 500@100 Vdc (transducer only)
process connection		submersible in liquid
electrical connection		4-core ,Φ7.6 mm shielded cable with vent hose which is mechanically strong enough for deep submersible liquid level measurements
pressure membrane material		316L SS
housing material		321SS
environment protection	IP rating	IP 68
weight	gram	200 (probe head) + the weight of cable

The listed specifications and dimensions are subject to change without prior notice.

**How to order:** model - range - output - accuracy - cable length - customer specific requests

ordering code example: LV35 - 0~5 mH<sub>2</sub>O - 4/20 mA - 0.25%fso - 5 m



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