

# Model LV36

## Submersible Liquid Level Transmitters

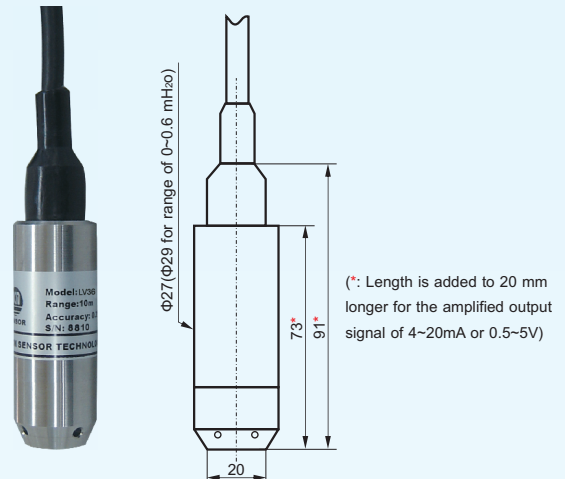
Based on BCM piezoresistive technology, model LV36 submersible liquid level probes are designed for gauge pressure (relative) application in level measurement. Made from 316L stainless steel with rigid and robust construction and cable with vent hose for submersible applications, the LV36 probes are suitable for liquid level measurement.

The LV36 probes are made of Wheatstone bridge circuit output signal in millivoltage or amplified output signal of 4~20 mA with a measuring accuracy 0.25 %fs (fs = full scale), the transducers possess a low temperature coefficients of less than 0.02 %fs/°C for both Zero and Span in the compensated temperature range 0~50 °C, and the long-term stability is better than 0.5 %fs/year.

### Features:

- measuring ranges: 0~0.2, ..., 0~200 mH<sub>2</sub>O
- output signal: 4~20 mA (standard), 0~5 V or 0~10 V  
transducer output (~80 mV) available on request
- accuracy: 0.1 %fs, 0.25 %fs (standard), 0.5 %fs
- compensated temperature ranges: 0~50 °C
- materials: 316L (pressure membrane); 316 (housing)
- construction: integrated construction, rigid and robust
- housing environment protection: IP 68

### Dimensions:



### Specifications:

measuring media		liquids which are compatible with 316L SS
measuring ranges	mH <sub>2</sub> O	0~0.2, 0~0.5, 0~1, 0~2, 0~5, 0~10, 0~20, 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	%FS	± 0.25 (standard), ± 0.5
long-term stability	%FS/year	< ± 0.5
response time	ms	<1 (10% ~ 90% of leading edge)
input resistance	transducers	Ω
output resistance	transducers	Ω
load resistance	transmitters	Ω
insulation resistance	MΩ@ 500 Vdc	> 500 (transducer only)
storage temperature range	°C	-40 ~ +100
operating temperature range	°C	0 ~ +80
compensated temperature range	°C	0 ~ +50
temperature coefficient of ZERO	%FS/°C	±0.02
temperature coefficient of SPAN	%FS/°C	±0.02
process connection		submersible in
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		316 SS
environment protection	IP rating	IP 68
weight	gram	200 (probe head) + 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: LV36 - 0~20 mH<sub>2</sub>O - 4/20 mA - 0.25%fs - 5 m



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