

# Model LV36 Submersible Hydraulic Level Probes

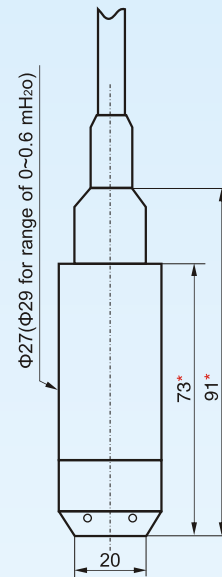
Based on BCM piezoresistive technology, model LV36 submersible hydraulic level probes are designed for gauge pressure (relative) application in hydraulic level measurement, Made from 316L stainless steel with rigid and robust construction and cable with vent hose for submersible applications, the LV36 probes are suitable for hydraulic 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%fso, the transducers possess a low temperature coefficients of less than 0.02 %fso/°C for both Zero and Span in the compensated temperature range 0~50°C, and the long-term stability is better than 0.5%fso per year.

## Features:

- measuring ranges: 0~0.6, ..., 0~200 mH<sub>2</sub>O
- output signal: ~70mV for standard output signal;  
4~20 mA or 0.5~5 V for amplified output signal
- measuring accuracy: 0.1%fso, 0.25%fso (standard), 0.5%fso
- compensated temperature ranges: 0~50 °C
- materials: 316L (pressure membrane); 316 (housing)
- construction: integrated construction, rigid and robust
- housing protection: IP 68;
- additional parts: amplified circuit board, display meter, housing for mV output probe; or display meter, housing for amplified output probe are available on request.

## Dimensions:



(\*: Length is 20 mm longer for the amplified output signal of 4~20mA or 0.5~5V)

## Specifications:

measuring media		water or liquids compatible to 316 SS
measuring range	mH <sub>2</sub> O	0~0.6, 0~0.8, 0~1, 0~2, 0~5, 0~10, 0~20, 0~50, 0~100, 0~200
overload	%fs	150
output signal	mV / mA / V	70 mV (standard), 4~20 mA or 0.5~5 V ( option for amplified output signal)
combined error	%fso	0.1%fso (min.), 0.25%fso (standard), 0.5%fso (max.)
zero offset	mV	2
temperature coefficient of ZERO	%fso/10°C	0.2
temperature coefficient of SPAN	%fso/10°C	0.2
compensated temperature range	°C	0 ~ 50
media temperature range	°C	0 ~ 80
storage temperature range	°C	-40 ~ +100
long-term stability	%fso/year	< 0.5
excitation (power supply)	current/voltage	1.5 mA (standard for mV output signal), 12~36 V (option for amplified output signal: 4~20 mA or 0.5~5 V)
input resistance	Ω	2000 ~ 8000 (for mV output signal)
output resistance	Ω	3500 ~ 6000 (for mV output signal)
load resistance	Ω	250 ~ 1150 (for amplified output signal: 4~20 mA or 0.5~5 V)
insulation resistance	MΩ	> 100 @ 50 Vdc
response time	ms	<1 (10% ~ 90% of leading edge)
environment protection	IP rating	IP 68
process application		submersible in
electrical connection		4-core, φ 7.6 mm shielded cable with vent hose which is mechanical strength enough for deep submersible hydraulic level applicaitons
weight	gram	200 (probe head) + the weight of calbe

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

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

**ordering code** example: LV36 - 0~20 mH<sub>2</sub>O - 70mV - 0.25%fso - 25 m - need all additional parts - no specific requests

**BCM SENSOR TECHNOLOGIES BVBA**