

Model LV37 Submersible Hydraulic Level Transmitters

Based on BCM pieze resistive technology, model LV37 submersible hydraulic level transmitters are designed for gauge (relative) pressure application in hydraulic level measurement, Made from 316L stainless steel with rigid and robust construction, cable with vent hose for submersible applications, the transmitters are suitable for deep hydraulic level measurement.

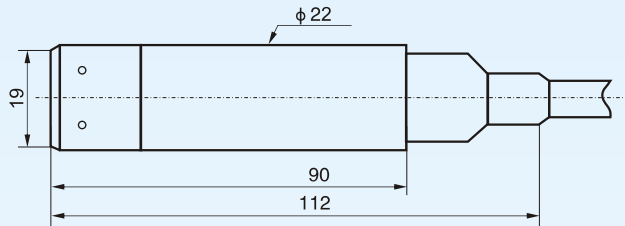
The LV37 hydraulic level transmitters are integrated design with housing which provide power supply to level probe, signal configuration and remote transfer, and option with field display meter. The configured output signal can be 0.5~5 V, or 4~20 mA with option of HART protocol communication, measuring accuracy is up to 0.3%fso. The transmitters possess a low temperature coefficients (less than 0.05%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 mH₂O
- output signal: 4~20 mA, option with HART protocol; or 0.5~5 V amplified output signal
- measuring accuracy: 0.3%fso (standard), 0.5%fso
- compensated temperature ranges: 0~50 °C
- materials: 316L (pressure membrane); 316 (housing)
- construction: integrated construction, rigid and robust
- probe and cable protection: IP 68;
- housing environment protection: IP 65.



Dimensions:



Specifications:

measuring media		water or liquids compatible to 316 SS
measuring ranges	mH ₂ O	0~1, 0~2, 0~5, 0~10, 0~20, 0~50, 0~100, 0~200
overload	%fs	150
output signal		4~20 mA (2-wire, standard), 1~5 V(3-wire) or 1~10 V (3-wire)
combined error	%fso	0.3%fso (standard), 0.5%fso (max.)
zero offset	%fso	0.2
temperature coefficient of ZERO	%fso/10°C	0.5
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
supply voltage	Vdc	12~36
load resistance	Ω	250~1150 (for 4~20 mA output signal)
	Ω	> 5000 (for 0.5~5 V output signal)
insulation resistance	MΩ	> 100 @ 50 Vdc
response time	ms	<1 (10% ~ 90% of leading edge)
environment protection	IP rating	IP 68 (probe and cable); IP 65 (housing)
process application		submersible in
display		digital, analogue or no meter
electrical connection		M20 x 1.5
weight	gram	~ 200 (probe head) + the weight of cable + ~1200 (housing)

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

How to order: model - range - output (with HART or no for 4~20 mA) - accuracy - cable length - field display - customer specific requests

ordering code example: LV37 - 0~20 mH₂O - 4~20 mA with HART - 0.3%fso - 25 m - digital display - no specific requests

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