

Model LV37

Submersible Liquid Level Transmitters



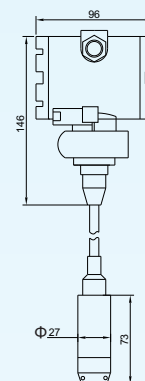
Based on BCM piezoresistive technology, model LV37 submersible liquid level transmitters are designed for gauge (relative) pressure application in liquid level measurement. These level transmitters are made from 316L stainless steel with rigid and robust construction, cable with vent hose for submersible applications.

The LV37 liquid level transmitters provide amplified output signals such as 0~5 V or 4~20 mA, with an option of HART for current output. These transmitters can also be equipped with a 4½ digits LCD field display. The measuring accuracy of model LV37 is up to 0.25%fso (fso = full scale output).

Features:

- measuring ranges: 0~0.6, ..., 0~200 mHzO
- output signal: 4~20 mA, option with HART protocol; or 0.5~5 V amplified output signal
- combined error: 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
- probe and cable protection: IP 68
- housing environment protection: IP 65.

Dimensions:



Specifications:

| parameters | units | specifications |
|-------------------------------------|-----------------|---|
| measuring media | | liquids compatible with 316L SS |
| measuring ranges | mHzO | 0~0.6, 0~1, 0~2, 0~5, 0~10, 0~20, 0~50, 0~100, 0~200 |
| overload pressure | %fso | 150 |
| output signal | mA | 4~20 (2-wire, standard), 4~20 with HART |
| | V | 0~5 (3-wire) |
| zero offset | %fso | ± 0.2 |
| accuracy | %fso | ± 0.25 (standard), ± 0.5 |
| long-term stability | %fso/year | < ± 0.5 |
| response time | ms | <1 (10% ~ 90% of leading edge) |
| load resistance | Ω | 250~1150 (for 4~20 mA output signal) |
| | Ω | > 5000 (for 0.5~5 V output signal) |
| supply voltage | Vdc | 24 (recommended), 12, ..., 36 |
| storage temperature range | °C | -40 ~ +100 |
| operating temperature range | °C | 0 ~ +80 |
| compensated temperature range | °C | 0 ~ +50 |
| temperature coefficient of SPAN | %fso/°C | ± 0.05 |
| temperature coefficient of ZERO | %fso/°C | ± 0.02 |
| process application | | submersible in liquid |
| electrical connection | | M20X1.5 |
| display | | 4½ digits LCD display, no display |
| pressure membrane material | | 316L SS |
| material of housing for electronics | | 316 SS |
| environment protection | probe and cable | IP 68 |
| | housing | IP 65 |
| 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 - accuracy - cable length - customer specific requests
ordering code example: LV35 - 0~5 mHzO - 4/20 mA - 0.25%fso - 5 m



BCM SENSOR TECHNOLOGIES BVBA

ISO9001 Certified Company

Industriepark Zone 4, Brechtsebaan 2
 B-2900 Schoten - Antwerpen, BELGIUM

Tel.: +32-3-238 6469
 Fax: +32-3-238 4171

website: www.bcmsensor.com
 email: sales@bcmsensor.com