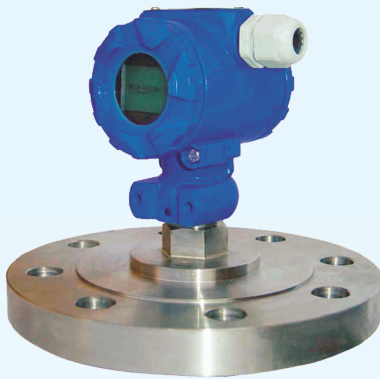


Model LV38

Liquid Level Transmitters for Flange Mounting

Based on BCM piezoresistive technology, model LV38 liquid level transmitters are designed for gauge pressure (relative pressure) application in liquid level measurement. The process connection of LV38 transmitter is a flange, which allows LV38 to be able to measure viscous and corrosive pressure media, such as fluids or fluids with grains. Corrosive media can be measured by choosing the material of the process connection as Hastelloy-C or Monel.

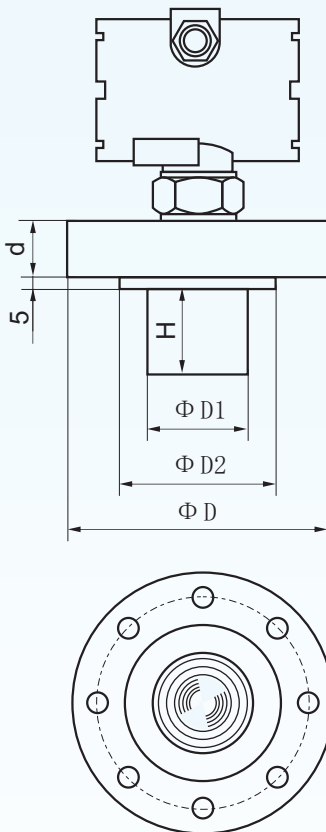
The measuring pressure range of LV38 liquid level transmitters spans from 0~0.5mH₂O to 0~200mH₂O. These transmitters can be provided with output signal of 4~20mA (HART is optional), 1~5V, 0~5V, 0~10V, or I²C. These transmitters are also equipped with a 4½ digits LCD display. The measuring accuracy of LV38 level transmitter is up to 0.25%fs (fs = full scale). The media temperature range is -40~+125°C.



Features:

- measuring ranges: 0~1mH₂O, ..., 0~200mH₂O
- media temperature range: -40~+125°C
- output signal: 4~20mA (standard),
option: 4~20mA with HART, 1~5V, 0~5V or 0~10V, I²C
- field display: 4½ digits LCD display, option: no display
- accuracy: 0.25%fs (standard), 0.5%fs
- flange material: 316 SS (standard), option: 316L SS, Hastelloy-C, Monel
- construction: integrated construction, rigid and robust
- protection class: IP65

Dimensions of Flange:



flange specifications and dimensions:

flange spec's*	d	D1	D2	D	H
DN80PN6	30	66	127	190	0 (standard), 50, 100, or 150
DN100PN16	30	89	157	220	0 (standard), 50, 100, or 150
DN100PN25	35	66	127	235	0 (standard), 50, 100, or 150
DN125PN16	38	89	157	250	0 (standard), 50, 100, or 150

*: The specifications of the flanges listed above follow the DIN standard.
Other flanges are available on request.

Model LV38

Liquid Level Transmitters for Flange Mounting



Technical data:

Parameter	Units	Specifications
measuring media		liquids compatible with wetted parts
measuring ranges	mH ₂ O*	0~1, ~2, ~5, ~10, ~20, ~50, ~100, ~200
overload pressure	%fs	200 (range ≥ 2mH ₂ O), 300 (range < 2mH ₂ O)
supply voltage	Vdc	24 (typical), 12, ..., 30
output signal	mA	4~20 (standard), option: 4~20 mA with HART
	V	1~5V, 0~5V, 0~10V
	digital	I ² C
accuracy	%fs	≤ ±0.25 (standard), ≤ ±0.5 (0~1mH ₂ O can only have 0.5%fs accuracy)
long-term stability	%fs/year	≤ ±0.1 in case of range ≥ 20mH ₂ O, ≤ ±0.2 in case of other ranges
load resistance	Ω	250~1150
insulation resistance	MΩ	> 500 @500Vdc
media temperature range	°C	-40~+125
ambient temperature range	°C	-40~+85
storage temperature range	°C	-40~+85
compensated temperature range	°C	-10~+70
temperature coefficient of ZERO	%fso/°C	≤ ±0.02
temperature coefficient of SPAN	%fso/°C	≤ ±0.02
process connection	flange specs	DN80PN6(standard), DN100PN16, DN100PN25, DN125PN16, others on request
	materials	316 SS (standard), 316L SS, Hastelloy-C, or Monel
electrical connection	internal thread	M20x1.5 (standard), ½ NPT
display		4 ½ digits LCD (standard), no display
pressure membrane material		316L SS
housing material		316 SS
environment protection		IP65

*: If in your applications the measured medium has different density than water, please inform BCM about the density.

The listed specifications are subject to change without prior notice.

How to order:

model-range-output-accuracy-flange type & material, depth-electric connection-display-customer specific requests
 ordering code example: LV38-10mH₂O-0/5V-0.25%fs-DN80PN6, 316L, 50mm-M20x1.5-no display



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