

Model LV35

Anticorrosive Submersible Liquid Level Transmitters



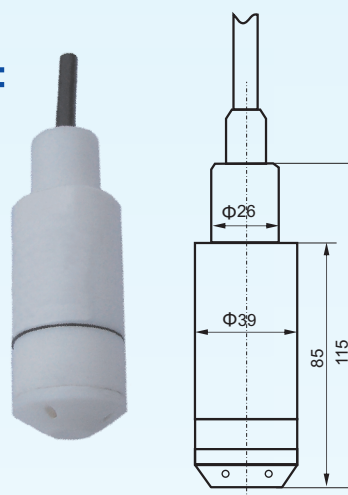
Based on silicon piezoresistive technology, model LV35 submersible Liquid level transmitter is designed for use in applications where the pressure is created by corrosive pressure media. The pressure diaphragm is made from tantalum and the housing is made from PVDF. LV35 level transmitters are designed for gauge pressure measurements.

Lv35 level transmitters are made of a Wheatstone bridge circuit. Various output signals, including millivolts signal (80 mV@1 mA) and amplified signals (4~20 mA, 0~5 V or 0~10 V), are available. The measuring accuracy is up to 0.25 %fso. These transmitters possess low temperature coefficients of 0.02 %fso/°C for both Zero and Span within the compensated temperature range (0~50 °C).

Features:

- for alkali corrosive medium
- wide measuring ranges: 0~1, ..., 0~10 mHzO
- various output signals:
 - transducers: full scale output 80 mV@1mA
 - transmitters: 4~20 mA, 0~5V or 0~10 V
- measuring accuracy: 0.25 %fso (standard), 0.5 %fso
- materials: tantalum (pressure membrane); PVDF (housing)
- housing environment protection: IP 68

Dimensions:



Specifications:

parameters	units	specifications
measuring media		liquids which are compatible with PVDF
measuring ranges	mHzO	0~1, 0~2, 0~3, 0~5, 0~10
overload pressure	%FS	150
output signal	transducers	mV
	transmitters	mA or Vdc
power supply	transducers	mA
	transmitters	Vdc
accuracy	%FSO	± 0.25 (standard), ± 0.5
long-term stability	%FSO/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	MO	> 500 @ 100 Vdc (transducer only)
storage temperature range	°C	-40 ~ +100
operating temperature range	°C	0 ~ +80
compensated temperature range	°C	0 ~ +50
temperature coefficient of SPAN	%FSO/°C	± 0.02
temperature coefficient of ZERO	%FSO/°C	± 0.02
process connection		submersible in liquid
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		tantalum
housing material		PVDF
environment protection	IP rating	IP 68
weight	gram	200 (probe head) + the 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: 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