

# Model LV35

## Liquid Level Transducers and Transmitters for Tank Applications in Chemical Industry



### Description

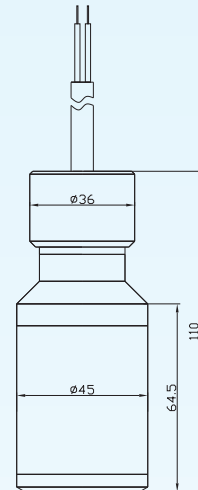
Based on silicon piezoresistive technology, model LV35 submersible Liquid level transmitter is designed for use in applications where the pressure is created by corrosive pressure media. The pressure diaphragm is made from tantalum and the housing is made from PVDF. LV35 level transmitters are designed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

The LV35 level transmitters are made of a Wheatstone bridge circuit. Various output signals are available, including millivolts signal ( $\geq 15\text{mV/V}$ ), amplified signals (4~20mA, 1~5V or 0~5V), and digital signal (I<sup>2</sup>C) . The measuring accuracy is up to 0.25%fs.

### Features

- for alkali corrosive medium
- wide measuring ranges: 0~1mHzO, ..., ~200mHzO
- various output signals:
  - transducers: full scale output  $\geq 15\text{mV/V}$
  - transmitters: 4~20mA, 1~5V, 0~5V, I<sup>2</sup>C
- accuracy: 0.25%fs (standard), 0.5%fs
- materials: tantalum (pressure membrane); PVDF (housing)
- housing environment protection: IP68

### Dimensions



### Technical Data

measuring media		liquids which are compatible with PVDF
measuring ranges	mHzO	0~1, ~2, ~3, ~5, ~10, ~20, ~50, ~100, ~200 (for transducer, min range = ~1)
overload pressure	%fs	150
output signal	transducers	mV
	transmitters	$\geq 15\text{mV/V}$
power supply	transmitters	Vdc
	transducers	V
accuracy	%fs	4~20mA (standard), 1~5V, 0~5V, I <sup>2</sup> C
long-term stability	%fs/year	18, ..., 36
response time	ms	5, ..., 10
input resistance	transducers	$\leq \pm 0.25$ (standard), $\leq \pm 0.5$ (0~1mHzO can only have 0.5%fs accuracy)
output resistance	transducers	$\leq \pm 0.5$
load resistance	transmitters	< 1 (10%~90% of leading edge)
insulation resistance	MΩ	2000~8000
storage temperature range	°C	3500~6000
operating temperature range	°C	250~1150
compensated temperature range	°C	> 500 @100Vdc (transducer only)
temperature coefficient of span	%fso/°C	-40~+100
temperature coefficient of zero	%fso/°C	0~80
process connection		0~50
electrical connection		$\leq \pm 0.03$
pressure membrane material		$\leq \pm 0.03$
housing material		submersible in liquid
environment protection	IP rating	4-core, $\Phi 7.6\text{mm}$ shielded cable with vent hose which is mechanically strong enough for deep submersible liquid level measurements
weight	gram	tantalum
		PVDF
		IP68
		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: LV35-5mHzO-4/20mA-0.25%fs-5m

