



## FLOTEK TWO-WIRE LEVEL TRANSMITTER

- Available in a Stainless Steel material of construction for a full range of chemically compatible liquids
- Ideal for use in chemicals with a specific gravity of 0.75 or greater
- Transmitter is fully submersed and not effected by fumes or vapors
- Rugged enclosure rated NEMA 4X for general purpose or NEMA 7 for hazardous areas.
- Continuously monitor liquid levels with proportional 4-20 mA output
- Mount through the top wall
- Compatible with Flowline's Continuous Relay Controller (LC52 series) and Universal Panel Meters (LI10 series)



LV50-S001  
Shown

A single float is attached to a stainless steel rod, which is installed through the top of the tank. Internal to the rod is a series of reed switches designed to open and close as the float changes with the liquid level. The internal magnets within the float will open or close the reed switches in a "2-3-2 at-a-time" sequence, which enables the transmitter to provide accurate level indication. With every movement of the float, either one additional switch closes or opens.

### SPECIFICATIONS

Range: 5" to 72"  
(12.7 cm to 1.8m)

Accuracy: 0.25" over span in water

Specific gravity: 0.75 minimum

Orientation: ± 30° from vertical

Supply voltage: LV50: 10 to 30 VDC  
LV51: 10 to 40 VDC

Loop resist.: 600 Ohms @ 24 VDC

Signal output: 4-20 mA, two-wire

Signal invert: 4-20 or 20-4 mA

Calibration: None, fixed span

Process temp.: F: -40° to 300°  
C: -40° to 148.9°

Electronic temp.: F: -40° to 160°  
C: -40° to 71°

Pressure: 300 psi maximum

Enclosure rating: LV50: NEMA 4X (IP65)  
LV51: NEMA 7 (IP65)

Installed height: LV50: 5.2" (13.2 cm)  
LV51: 6.2" (15.7 cm)

Encl. material: LV50: PP, UL94VO  
LV51: Aluminum

Guide/float mat.: 316 SS

Process mount: 2" NPT

Conduit entrance: Single, 1/2" NPT

Classification: LV50: General purpose  
LV51: Explosion proof

CE compliance: EN 50082-2 immunity  
EN 55011 emission

General Purpose	Yes	Dirty	Yes
Intrinsically safe	Yes	Non-coating	Yes
Conductive	Yes	Ambient pressure	Yes
Non-conductive	Yes	Low pressure	Yes
Δ Conductive	Yes	Medium pressure	Yes
Foam	Yes	Coating	No
Vapors	Yes	Non-contact	No
Δ Gas density	Yes	Integral relay	No
Contact	Yes	Vacuum	No
Clean	Yes		

Approvals: LV50: None  
LV51: FM, CSA:  
Class I, Division I,  
Groups B, C & D;  
Class II, Groups E, F  
and G



KTH Sales Inc, 8574 Louisiana Place  
Merrillville, IN 46410  
Tel 219-736-0060 800-235-3604  
Fax 219-769-0263  
www.KTHSales.com

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