

L96 SERIES

CAPACITANCE LEVEL TRANSMITTER



DESCRIPTION

The L96 Capacitance Level Transmitter is a highly customizable device for measuring liquid level in various tanks and other enclosures. The probe can be custom designed to meet the unique needs of the end-user and application, and the device can be calibrated to provide continuous level data in the environment. The L96 has both a configurable analog output as well as a relay output for users looking for a transmitter that can also provide switching function. This device has an optional OLED display for applications where visual calibration and monitoring is necessary.

KEY FEATURES

- Configurable output selection and configurable latching relay for switching function
- 0-5V, 1-5V, 0-10V and 4-20mA Analog outputs available, and SPST latching relay 16A 250VAC / 24VDC
- Operating temperature up to 392°F (200°C), operating pressure up to 300psi
- Fully customizable probe length and internal electronics
- Durable stainless steel construction for more hazardous environments
- Optional OLED display for continuous monitoring of level, output, and switch status
- Modbus RTU protocol for data transmitting / receiving

SPECIFICATIONS

Electrical - Supply & Output

Modbus	RS485 Modbus Configuration
Supply	12 - 65 VDC
Output Options	0-5V, 1-5V, 0-10V, 4-20mA
Max Power Consumption	3 Watts
Relay	Fully configurable Latching Relay
Contact Rating	16A at 250VAC, 24VDC
Output	Configurable upper and lower threshold at 0 - 99% of level. Configurable contact to close or open at desired threshold

Performance

Accuracy	1% of Full Scale
Repeatability	>95%
Resolution	16 bit over span (default)

Environmental

Process Temp.	-20°C ... 100°C (-4°F ... 212°F)
Extended Process	-30°C ... 200°C (-22°F ... 392°F)
Process Pressure	300psi Operating Pressure 500psi Max System Pressure
Wetted Parts	SS-304, SS-316, SS-316L, PTFE, part ceramic
Process Connection	NPT / BSP 3/4", 1", 1¼", 1½", 2" Flanged : ANSI/JIS/DIN/ASA/custom
Probe Insertion Length	50mm to 3,000mm

Mechanical Configuration

Wetted Parts	SS-304, SS-316, SS-316L, PTFE, part ceramic
Process Connection	NPT / BSP 3/4", 1", 1¼", 1½", 2" Flanged : ANSI/JIS/DIN/ASA/custom
Probe Insertion Length:	50mm to 3,000mm
Display	OLED -0.96" 128 x 64 + 4 Switches Or 1-Digit 7-segment plus 2 display
Calibration	Both modbus as well as using display
Configuration	User defined, See "Order Guide"
Dimensions / Weight	User defined, See "Order Guide"
Enclosure	User defined, See "Order Guide"
Housing	User defined, See "Order Guide"

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ORDER GUIDE

L96 Series

Environmental

L96	Hxx	Tx	Sx	Ix	Gx	Wx	Px	Cx	Lxxxx
	Enclosure	Material Temperature	Sensing Surface Material	Insulation type	Sensor Extension Material	Stilling Well Material	Process Connection Type	Process Connection Material	Insertion length
	HAN: Aluminum Non-Hazardous IP-66/68	T1: max 100°C T2: max 200°C TS: Customer specified / Designed	S6: SS-316 SL: SS-316L ST: PTFE coated SF: PFA coated SS: Special surface	I0: None IP: Partly PTFE insulated IT: Full PTFE insulated IC: Partly ceramic insulated	G0: None G4: SS-304 G6: SS-316 GL: SS-316-L GS: special material Material	W0: None W4: SS-304 W6: S-316 WL: SS-316-L WS: special material	PB1: BSP 1" PB2: BSP 1 1/2" PB4: BSP 1 1/4" PB5: BSP 2" PN: 3/4" NPT PN1: NPT 1 PN2: NPT 1 1/2 PN4: NPT 1 1/4 PN5: NPT 2" PFL: Flanged Type - description of flange - FL -at the end of order code	C4: SS-304 C6: SS-316 CL: SS-316L CS: Special material	50mm to 3,000mm

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