



JLTX

Explosion-Proof Universal Liquid Transmitter



APPLICATION

- Liquid analysis
- Hazardous area
- Measurement of pH, ORP, specific ion, dissolved oxygen, turbidity, conductivity, resistivity, free and total chlorine, TDS, TSS
- For use with JLSX explosion-proof liquid sensor
- Measurement of free chlorine and total chlorine with sample preparation system

BENEFITS

- Single or dual channel
- Rugged corrosion resistant 316 Stainless Steel housing
- Flexible communication for all applications with 4 – 20 mA and Modbus RTU or HART® (Rev 7) communication

FEATURES

- Easy navigation by graphic LCD display
- Use with digital intelligent sensors, which are factory calibrated and store data
- Intuitive menu structure



TECHNICAL DATA

MODEL

JLTX

Description	liquid transmitter for use with JLSX explosion-proof liquid sensor
-------------	--

MEASUREMENT

Measurement inputs	<u>with JLSX:</u> pH, ORP, specific ion, turbidity, conductivity, resistivity and temperature, dissolved oxygen <u>with sample preparation system:</u> free chlorine, total chlorine <u>with JLS:</u> TDS, TSS
Measurement range(s)	-1...15 pH, -1,500...1,500 mV ORP / 0.1...999.9 ppm pION / 0.1...999.9 ppm DO / 0.055...2.005 mS conductivity / 0.001...50 meg-ohms resistivity / -30° ...140 °C (-22° ...284°F) temperature / 0...1,000 ppm TDS / 0...3,000 mg/l TSS / 0...20 ppm free chlorine ranges
Accuracy based on use with JLSX	pH: 0.02 pH, ORP: ± 1 mV, pION: specific for ion type, DO: 2 % of calibrated range, conductivity : 2 % of calibrated range, resistivity 2% of calibrated range turbidity: 4 % of calibrated range, temperature : ± 0.3 °C (32.54 °F) TDS: 2 % of calibrated range, TSS: 4 % of calibrated range, FCL/TCL: 2 % of calibrated range
Repeatability	1 % full scale range

OPERATION

Ambient temperature	-20° ...55 °C (-4° ...131 °F)
Humidity	non condensing 0 – 95 %

CONSTRUCTION

Dimensions (W x H x D)	116.84 x 127.89 x 120.04 mm (4.6 x 5.04 x 4.73 in)
Weight	3.65 kg (8 lbs)
Mounting	wall or panel mount
Housing material	electro polished 316 SS
Protection class	IP66
Area classification	⚠ ATEX / IECEx: II 2 G Ex db mb IIC T4 Gb FM/CSA: Class I, DIV 1, Groups B, C and D, CLASS II, DIV 1, GROUPS E, F and G, CLASS III, DIV 1, NEMA 4X, IP66
Approval	CE, FM, ATEX, IECEx

ELECTRICS

Power supply and consumption	loop powered, 24 VDC, 600 Ω maximum load (18 – 36 VDC @ 35 mW minimum), (single channel transmitter only) or 24 VDC (18 – 36 VDC @ 250 mW minimum), (4-wire)
Measurement signal output	4 – 20 mA standard single channel or an optional second channel
Relay contacts	optional 3 x relay contact, max. 250 VAC, 3 A; user configurable as high or low alarm
Communication	4 – 20 mA + Modbus RTU, HART® (Rev 7) optional
Electrical connection	3 x M20 x 1.5 cable gland

DIMENSIONAL DRAWING

dimensions in mm

3x 3/4" FNPT ENTRIES



