



# 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
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**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

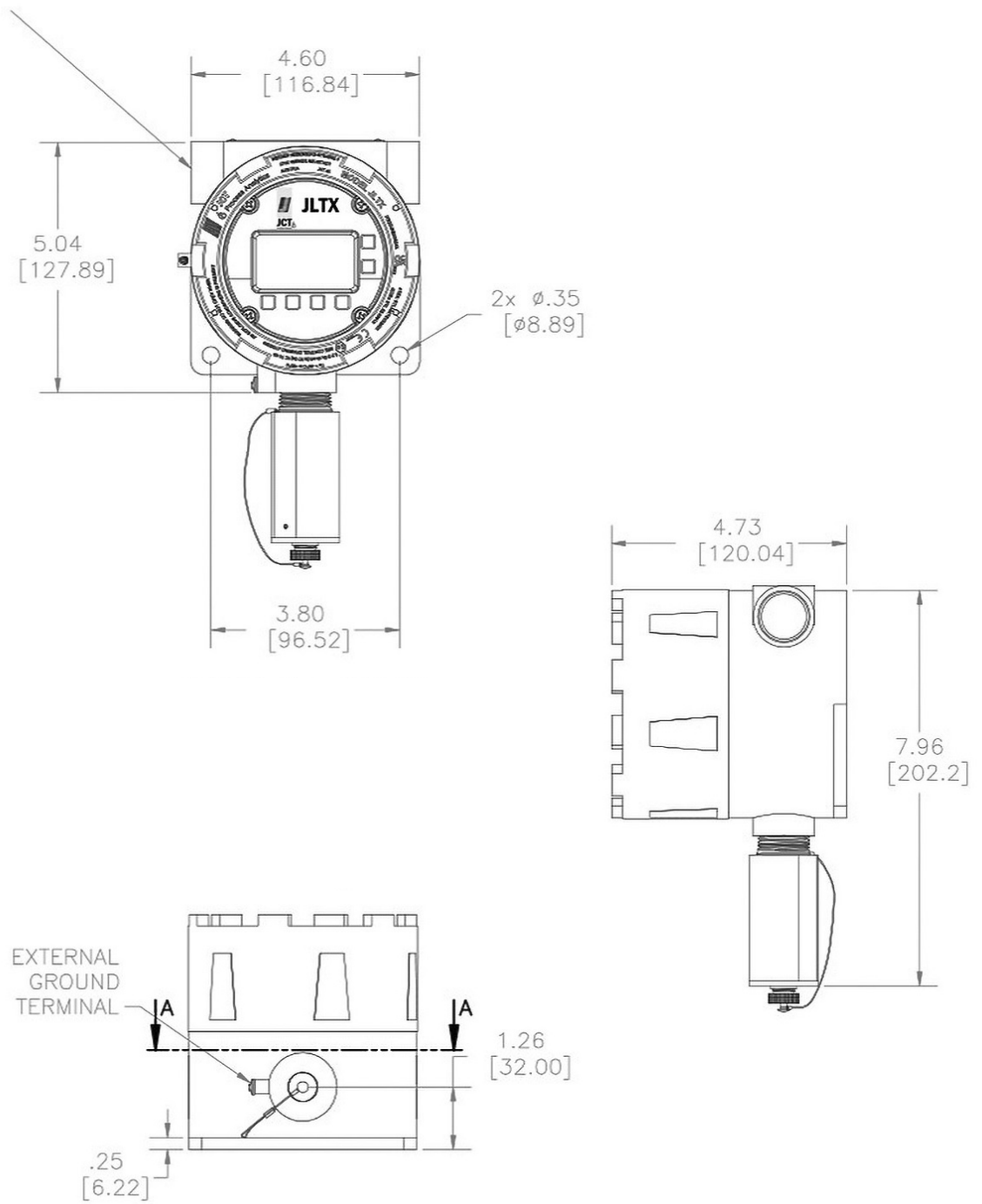
**ELECTRICS**

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



**ORDER CODES**

Part No.	Description
70.00200	JLTX Explosion-proof universal liquid transmitter

**AVAILABLE FEATURES**

Number of channels	single channel pH, ORP, pION, conductivity, resistivity, dissolved oxygen, chlorine & other measurements	10			
	dual channel pH, ORP, pION, conductivity, resistivity, dissolved oxygen, chlorine & other measurements	11			
Power supply	loop power (single channel only)		-0		
	24 VDC power (4-wire)		-1		
Alarm relays	no relays			0	
	(3) formC 250 V 3A relays			1	
Output	4 – 20 mA output and Modbus RTU				0
	1 x 4 – 20 mA with HART® (Rev 7)				1
	2 x 4 – 20 mA with Modbus RTU				2
	2 x 4 – 20 mA with HART® (Rev 7)				3
Approvals	no approval				-00
	FM approved				-01
	ATEX & IECEx approved (single channel)				-02
	ATEX & IECEx approved (dual channel)				-03

<b>ORDER CODE</b>	<b>JLTX.</b>	-			<b>-0</b>
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