Process Solutions You Can Trust



JLTUniversal Liquid Transmitter



APPLICATION

- · Liquid analysis
- Measurement of pH, ORP, specific lon, dissolved oxygen, turbidity, conductvity, resistvity and chlorine
- Measurement of TDS, TSS, free chlorine and total chlorine with sample preperation system

BENEFITS

- · Single or dual channel
- Rugged corrosion resistant 316 Stainless Steel housing
- Flexible communication for all applications with 4 – 20 mA with 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

















JCT Analysentechnik

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TECHNICAL DATA

MODEL JLT

Description	single or dual channel universal liquid transmitter for use with JLS liquid sensor
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MEASUREMENT

Measurement inputs	pH, ORP, dissolved oxygen, specific ion, turbidity, conductvity, TDS, TSS, and temperature with sample preparation system: free chlorine, total chlorine				
Measurement range(s)	 -115 pH, -1,5001,500 mV ORP, 0.1999.9 ppm pION, 0.1999.9 ppm DO, 04,000 NTU turbidity, 0.055 μS2.00 S conductivity, -30°140°C (-22°284°F) temperature, 020 ppm free chlorine/total chlorine 				
Accuracy based on use with JLS	pH: 0.02 pH, ORP: ± 1 mV, pION: specific for ion type, DO: 2 % of calibrated range, turbidity: 4 % of calibrated range, conductivity: 2 % of calibrated range, temperature: ± 0.3 °C (32.54 °F), free chlorine/total chlorine: ± 3 % of the references ntest (DPD)				
Repeatability	1 % full scale range				

OPERATION

Ambient temperature	−20°70 °C (−4°158 °F)
Humidity	non condensing 0 – 90 % NC

CONSTRUCTION

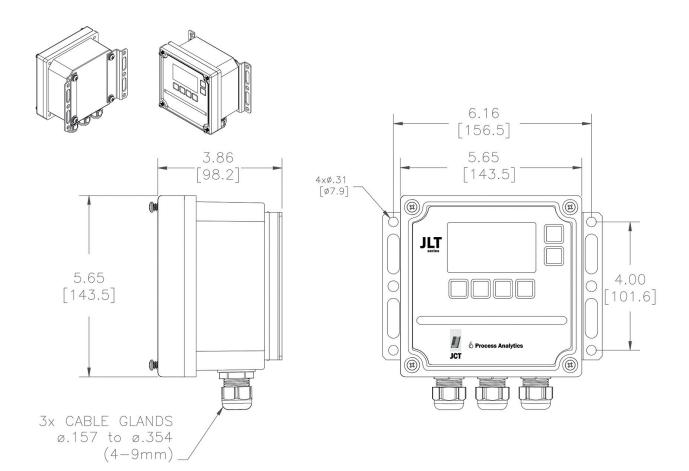
Dimensions (W x H x D)	20.5 x 20.5 x 12.7 cm (8 x 8 x 5 in), (L x W x D) 14.4 x 14.4 x 9.0 cm (5.7 x 5.7 x 3.5 in)				
Weight	0.75 kg (1.6 lbs)				
Mounting	wall or panel mount				
Housing material	polycarbonate				
Protection class	IP66 / NEMA 4X				
Area classification	safe zone				
Approval	CE, FM				

ELECTRICS

Power supply and consumption	loop powered, 24 VDC, 600 Ω maximum load (18 – 36 VDC @ 35 mW minimum) or 24 VDC (18 – 36 VDC @ 250 mW minimum) or 100 – 240 VAC, 50/60 Hz, 4 W
Measurement signal output	1 x 4 $-$ 20 mA and Modbus RTU or HART output or 2 x 4-20 mA with Modbus RTU
Relay contacts	optional 3 x relay contact, max. 250 VAC, 3 A; user configureable as high/low or fault alarm
Communication	4 – 20 mA + Modbus RTU, HART® (Rev 7) optional

DIMENSIONAL DRAWING

dimensions in mm



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ORDER CODE

Part No.	Description
70.00100	JLT Universal Liquid Transmitter

Available features

Ch 1 Inputs	JLT Sensor, pH, ORP, pION, conductivity, resistivity and galvanic dissolved oxygen, TRITON® DO82 Op0cal DO & TR86 turbidity	1						
Ch 2 Inputs	No Input for Channel 2			0				
	JLT Sensor, pH, ORP, pION, conductivity, resistivity and galvanic dissolved oxygen, DO82 & TR86 turbidity			1				
Power supply	Loop powered transmitter (not available for DO82 or TR86 sensors)				-0			
	24 VDC powered transmitter				-1			
	100/240 VAC, 50/60 Hz, 4 W powered transmitter				-2			
Alarm relays	No relays					0		
	(3) formC 250 V 3 A relays					1		
Output	4 – 20 mA output and MODBUS RTU						0	
	HART®						1	
	2 x 4 – 20 mA with MODBUS RTU						2	
Mounting hardware	No mounting hardware							-00
	Universal mount							-01
	Panel mount							-02
	Handrail mount							-03
	Sunshield vertical rail mount							-04
	Sunshield horizontal rail 1							-05
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