FTX-300-LUX+
Fiber Optic Temperature Transmitter

MRI, Microwave, Industrial and Research Temperature Measurement

FTX-300-LUX+
Temperature Transmitter

Scalable High-Performance Fiber Optic Temperature Sensing

The FTX-300-LUX+ fiber optic signal conditioner offers exceptional value combined with industry leading speed and accuracy. Whether your application requires one, two, or three sensing channels, the FTX-300-LUX+ transmitter is ideally suited for demanding research applications in MRI, microwave, and high electro-magnetic field environments. It can read optical sensors with tip diameters as small as 125 microns over distances up to 50 meters. It connects quickly to your personal computer with a standard USB cable to provide real-time temperature trending and data logging with the optional OSENSAView Pro software or LabView VI. The 4-20mA analog outputs have 16-bit resolution with configurable alarms for easy connection to a PLC, temperature controller, solid state relay, or digital display. Multiple signal conditioners can be connected in series and mounted on a standard 35mm DIN rail.

Product Specifications

Model Name	FTX-100-LUX+	FTX-200-LUX+	FTX-300-LUX+
Number of Channels	1	2	3
Analog Output	16-bit, 3kV Isolated 4-20mA		
Digital Interface	USB & Isolated 3-wire RS-485		
Optional Relays (+R)	2x Form A, 2A, 30VDC (threshold / differential alarms)		
Measurement Range	-110°C to +450°C		
Resolution	0.01°C		
Measurement Accuracy*	±0.05°C (No calibration required, ever)		
Update rate	30-90 Hz		
Communication Protocol	Modbus RTU, Half Duplex, 9600 to 115200 baud		
Status Indication	3 Color Flashing and Solid LEDs		
Operating Humidity	0 to 90% RH (Non-Condensing)		
Operating Environment	-40°C to +65°C		
Power	12-24 VDC (2.5W max)		
Dimensions	114mm Tall x 22.5mm Wide x 102mm Long		
Mounting	35mm DIN Rail		
Configuration Software	OSENSAView or OSENSAView Pro		
Product Compliance	RoHS CE cULus		

* Overall system accuracy depends on fiber optic probe style and calibration. With individual probe calibration it is possible to achieve system accuracies of ±0.10°C. Typically, probes are sold with uncalibrated interchangeable accuracies of ±0.5°C or ±1.0°C.

TECHNICAL SUPPORT

OSENSA Innovations offers on-site support, commissioning, and training for all of its products. For immediate assistance with any technical issue, please contact support@osensa.com or call 1-888-732-0016.

WARRANTY INFORMATION

OSENSA Innovations stands behind its products and services. All fiber optic temperature probes and signal conditioners ship with a full one year repair or replacement warranty. You may also purchase an extended five year warranty. Some conditions apply.

CUSTOM OEM SOLUTIONS

OSENSA offers cost-effective design and consulting services at discounted rates for high-volume OEM customers. Let the engineering team at OSENSA Innovations help you rapidly develop custom probes for your process control application. OSENSA's team has many years of experience designing fiber optic temperature probes for various industrial environments.

FURTHER INFORMATION

For more information on any of our products or services please visit our website: www.osensa.com or email: info@osensa.com.

ISO 9001:2015 CERTIFICATION Intertek

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Specifications subject to change without notice.

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