

# FTX-300-LUX+HG

## Fiber Optic Temperature Transmitter

### For Demanding Temperature Measurement Applications



FTX-300-LUX+HG Temperature Transmitter

#### Scalable High-Performance Fiber Optic Temperature Sensing

The FTX-300-LUX+HG (High Gain) transmitter is ideally suited for temperature measurement applications where the optical signals are too weak for the standard FTX-300-LUX+ series to detect. This may include applications with long fiber runs, multiple connection points, or a mismatch between fiber types. This device offers all the same features as the FTX-300-LUX+, but with a higher sensitivity detector. The device 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. 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.

#### 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](mailto: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](http://www.osensa.com) or email: [info@osensa.com](mailto:info@osensa.com).



### Product Specifications

Model Name	FTX-100-LUX+HG	FTX-200-LUX+HG	FTX-300-LUX+HG
Number of Channels	1	2	3
Analog Output	Isolated 4-20mA		
Digital Interface	USB & Isolated RS-485		
Optional Relays (+R)	2x Form A, 2A, 30VDC (threshold / differential alarms)		
Measurement Range	-220°C to +450°C		
Resolution	0.01°C		
Measurement Accuracy*	±0.05°C from 0 to 40°C Ambient		
Update rate	30-90 Hz		
Comm. Protocol	Modbus RTU, Half Duplex		
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.