

FTX-301-PWR+R

Fiber Optic Temperature Transmitter

Reliable Industrial Thermal Monitoring



FTX-301-PWR+R
Transmitter

OSENSA's fiber optic temperature sensors offer noise-free performance and calibration-free replacement of aging RTD's and PT-100's in many industrial applications. The FTX-301-PWR+R is a general-purpose industrial fiber optic temperature transmitter offering industry leading performance and reliability. Each signal conditioner accepts three optical fiber sensor inputs for microwave process control or monitoring of medium voltage electrical equipment such as switchgear, bus bars, motors, generators, cast resin transformers, circuit breakers, and diode heat sinks. Temperatures are reported on isolated 4-20mA outputs as well as digitally over a 3-wire RS-485 bus talking Modbus RTU protocol. Two optional form A relays can be programmed to trip on temperature thresholds or temperature deltas for hard-wired alarms.

Product Specifications

Model Name	FTX-301-PWR+ or FTX-301-PWR+R
Number of Channels	3
Analog Output	16-bit, 3kV Isolated 4-20mA
Digital Interface	USB & Isolated 3-wire RS-485
Relays (+R models only)	2x Form A, 2A, 30VDC (threshold / differential alarms)
Measurement Range	-40°C to +200°C
Resolution	0.1°C
System Accuracy	±1.0°C (No calibration required, ever)
Update rate	30 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 c UL us

Notes:

1. Use with OSENSA's general purpose fiber optic temperature probes: PRB-PF1 and PRB-GB3.
2. For longer distances add extension cable EXT-100-10M-ST-ST, in lengths 10M, 20M, or 30M.
3. Combine with OSENSA's HMI-001 or HMI-001-RELAY for display and data capture to the cloud.

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.

