FTX-301-PWR+R
Fiber Optic Temperature Transmitter

Reliable Industrial Thermal Monitoring

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.

FTX-301-PWR+R
Transmitter

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.

Certified System
SAI GLOBAL
ISO 9001 Quality

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Specifications subject to change without notice.
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