

FTX-301-XFMR+R

Fiber Optic Temperature Transmitter

Reliable Industrial Thermal Monitoring



FTX-301-XFMR+R
Transmitter

The FTX-301-XFMR+R temperature transmitter offers exceptional value for transformer winding temperature monitoring. It reads both OSENSA and Luxtron™ brand (manufactured by Advanced Energy) fiber optic temperature probes. The isolated, 4-20mA analog outputs are loop powered and provide simple integration with standard industrial PLCs and temperature controllers. 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. The transmitter connects quickly to a laptop computer with a mini-USB cable for quick programming and setup. Multiple transmitters can be connected in series on a standard 35mm DIN rail with a common 5-wire BUS for DC power and communications.

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.



Product Specifications

Model Name	FTX-301-XFMR+ or FTX-301-XMFR+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  

Notes:

1. Use with OSENSA's oil-filled transformer probes PRB-230 and with LUXTRON™ brand DipTip probes as well as STB, STS, and STM styles.
2. For longer distances add extension cable EXT-230-10M-ST-ST, in lengths up to 50M.
3. Combine with OSENSA's HMI-001 or HMI-001-RELAY for display and data capture to the cloud.