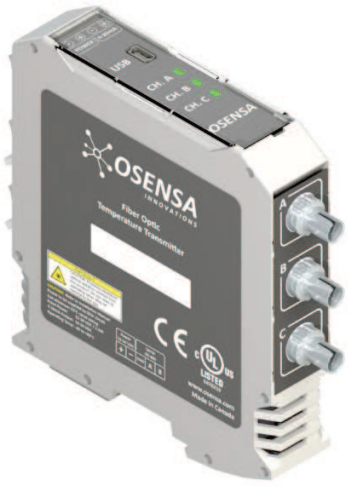
Fiber Optic Temperature Sensing for High Voltage Transformers

FTX-301-XFMR+ Temperature Transmitter



FTX-300-XFMR+ Transmitter

Transformer Hot Spot Fiber Optic Temperature Sensing

The FTX-301-XFMR+ temperature transmitter offers exceptional value for transformer winding temperature monitoring. It reads Luxtron™ brand (manufactured by Lumasense Inc.) fluorescent temperature probes. The signal conditioner connects quickly to a laptop 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 isolated, 4-20mA analog outputs are loop powered and provide simple integration with standard industrial PLCs, temperature controllers, and relays. Multiple signal conditioners can be connected in series on a standard 35mm DIN rail and the T-Bus connector supports RS-485 communication over industry standard Modbus RTU protocol.

Product Specifications

Model Name	FTX-101-XFMR+	FTX-201-XFMR+	FTX-301-XFMR+
Number of Channels	1	2	3
Analog Output	Isolated 4-20mA		
Digital Interface	USB & Isolated RS-485		
Operating Environment	-40°C to +65°C		
Measurement Range	-45°C to +200°C		
Resolution	0.1°C		
System Accuracy*	±2.0°C		
Update rate	30 Hz		
Comm. Protocol	Modbus RTU, Half Duplex		
Status Indication	3 Color Flashing and Solid LEDs		
Operating Humidity	0 to 90% RH (Non-Condensing)		
Dimensions	114mm Tall x 22.5mm Wide x 102mm Long		
Power	12-24 VDC (2.5W max)		
Mounting	35mm DIN Rail		
Configuration Software	OSENSAView or OSENSAView Pro		
Product Compliance	CE c UL us		

* Overall system accuracy includes measurement error associated with the fiber optic temperature probe and signal conditioner when using the standard factory calibration. Higher accuracy is possible with individual probe calibration.

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.

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Specifications subject to change without notice.

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HOW TO SPECIFY PARTS

Temperature Transmitters

Please consult the table below to ensure you are ordering the correct transmitter for the probe style you desire. Also note that only the -LUX+ and -XFMR+ series can be ordered as 1, 2 or 3 channel devices. For instance, an FTX-100-LUX+ is a single channel device and an FTX-201-XFMR+ is a 2 channel device.

	Fiber Optic Temperature Probe Styles						Extension Cables		
Model #	**PF1**	**GB3**	**MR1**	**G40**	**G20**	**LUXTRON™**	**PF1**	**400**	**200**
FTX-602/302-PWR	✓	✓					✓		
FTX-301-PWR+	✓	✓					✓		
FTX-300-LUX+			✓	✓	✓		✓	✓	✓
FTX-301-XFMR+						✓		✓	✓

Fiber Optic Temperature Probes

PRB-PF1-06M-ST-L-TP2

Tip Style:
TP1 – Mounting Nut
TP2 – Ring Clamp

Connector Style:
ST – Standard ST
STM – Non-Magnetic ST

Cable Length:
0.5M – 0.5 meters (min)
10M – 10 meters (max)

Sensing Range/Accuracy:
L – Standard
MRI – Medical
C– Custom
HC – High Custom

Probe Style:
PF1, MR1, GB3 Probes
G40 – Probes
G20 – Probes

Fiber Optic Extension Cables

EXT-400-10M-STM-STM

1st and 2nd Connector Style:
ST – Standard ST
STM – Non-Magnetic ST

Cable Length:
02M – 2 meters (min)
50M – 50 meters (max)

Cable Style:
PF1 – for PRB-MR1, PRB-PF1 or PRB-GB3 Probes
400 – for PRB-G40 Probes
200 – for PRB-G20 Probes

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