Power Industry Temperature Applications

FTX Series Fiber Optic Temperature Sensors

FTX-301-PWR Signal Conditioner

Switch Gear and Transformer Monitoring at an affordable price!

The FTX series fiber optic signal conditioner offers exceptional value combined with industry leading performance. Each signal conditioner has 3 fiber sensor inputs for convenient three-phase monitoring of hot spots with configurable high/low alarms for both hardware faults and out of range conditions. The FTX-301 transmitter includes three externally powered, optically isolated, 4-20mA analog outputs for simple integration with existing PLC's. The FTX series offers convenient USB and RS-485 connectivity over industry standard Modbus RTU protocol for easy setup and device configuration. The FTX series transmitter supports OSENSA's un-breakable high-temperature plastic optical fiber sensors that can operate continuously to 125°C, and handle intermittent exposure to 150°C. OSENSA also offers extremely robust hybrid probes that can operate continuously to 200°C.

Product Specifications

Model Name	FTX-301	FTX-302
Number of Channels	3	3
Analog Output	10 Bit	None
Measurement Range	-45°C to +200°C	
Resolution	0.1°C	
Accuracy*	0.1°C	
Update rate	10 Hz	
USB 2.0 Protocol	Modbus RTU	
RS-485 Protocol	Modbus RTU, Half Duplex	
Status Indication	3 color Flashing and Solid LEDs	
Operating Temp.	-20°C to +55°C	
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	
Software	OSENSAView FTX	

* Measurement accuracy depends on Probe Accuracy and Transmitter Accuracy

Power and communicate to multiple transmitters using the common RS-485 serial bus connector and industry standard Modbus RTU protocol.

Display up to six temperature channels, and configure zero, span, alarms and lookup tables using factory bundled OSENSAView FTX software.

Password protect EEPROM settings to prevent operators from changing configuration parameters.

Easily test and calibrate fluorescence-based fiber optic temperature probes made by other vendors by upgrading to OSENSAView FTX Pro.

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 604-754-5943.

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 are subject to change without notice.