Semiconductor Temperature Applications

FTX Series Fiber Optic Temperature Sensors

FTX-300-GEN Signal Conditioner

Get higher-performance multi-zone control without increasing cost!

The FTX series fiber optic signal conditioner offers exceptional value combined with industry leading speed and accuracy. Whether your process requires one, two, or three zone control, the FTX series delivers stable ±0.015°C accuracy and a remarkable 50Hz update rate. The externally powered, optically isolated, 4-20mA analog outputs have 16 bit resolution with configurable high/low alarms for both hardware faults and out of range conditions. The FTX series offers convenient USB and RS-485 connectivity over industry standard Modbus RTU protocol for easy setup and device configuration. In addition, the FTX series can be easily configured to read probes manufactured by other vendors, so it can be seamlessly integrated into your existing product line and upgrade legacy equipment requiring better performance.

Product Specifications

Model Name	FTX-300	FTX-200	FTX-100
Number of Channels	3	2	1
Analog Output	16 Bit, 4-20mA, Loop Powered 12-24 VDC		
Measurement Range	-45°C to +425°C		
Resolution	0.01°C		
Accuracy*	±0.015°C		
Update rate	50 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 electrostatic chucks and shower heads including for dielectric and conductor etch applications.

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.

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