

FTX-020-OEM

Fiber Optic Temperature Transmitter

MRI & Life Sciences Temperature Monitoring



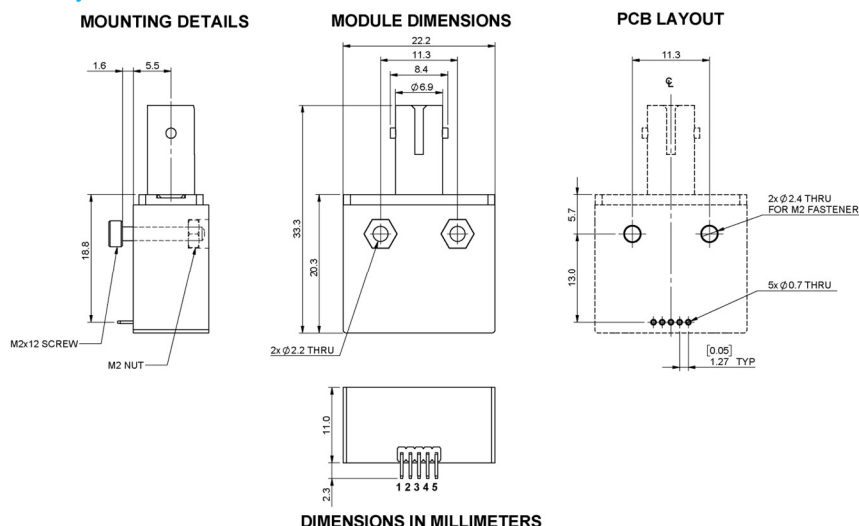
OEM Fiber Optic Temperature Transmitter

OSENSA's FTX-020-OEM is the world's smallest form-factor fiber optic temperature transmitter module for OEM applications including MRI, Microwave Ablation (MWA), and Radio Frequency Ablation (RFA) patient monitoring. The module solders directly to a printed circuit board with a 5-pin header and talks to a microcontroller over Serial Modbus or optional SPI interface.

Module Specifications

	FTX-020-OEM
Measurement Range	-20 to +120°C
Operating Temperature	0 to +55°C
Calibrated accuracy	± 0.10°C
Typical Measurement Noise	Std Dev < 0.03°C
Supported Temperature Probes	PRB-100, PRB-400
Light Source	Red
Optical Interface	ST Connector
Digital Interface	Serial Modbus (optional SPI)
Product Compliance	RoHS 

Mechanical Layout



Electrical Interface

Pin	Modbus	SPI	Description	Notes
1	GND	GND	Ground connection. No reverse polarity protection	-
2	MS	CS	Module/Chip select. Hold high (3.3V) to ignore coms	3.5V max
3	+5V	+5V	Regulated 5VDC power, 100mW continuous, 350mW peak	6.0V max
4	RX	MISO	UART Receive / Master Input (3.3V)	3.5V max
5	TX	SCLK	UART Transmit / Serial Clock Line (3.3V)	3.5V max

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 temperature transmitters 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.

