

1-30 Channels - Fast Response - High Accuracy

Fiber Optic Temperature Sensing for MRI, Microwave/RF Ablation and Research

OSENSA's fiber optic temperature sensing systems combine unsurpassed performance with exceptional value, making them an easy choice for your MRI temperature sensing needs. Features include:

- Portable, light-weight platform with convenient plug & play USB interface
- Expandability from 1 to 30 channels
- Ultra-stable temperature readings with noise less than $\pm 0.02^{\circ}\text{C}$ for 1 second averaging
- Exceptionally fast response with optical sampling rates exceeding 90Hz at 40°C
- Intuitive software that quickly recalls previous test setups, saving valuable time
- Real-time data capture, graphing and logging for up to 30 channels per second
- Non-magnetic fiber optic temperature probes, couplers, and extension cables

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 research application. OSENSA's team has many years of experience designing fiber optic temperature probes for various laboratory 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.

System Components



FTX-300-LUX+
MRI Temperature
Transmitter

ACC-USB-BASE
Multi-Channel Base Station

EXT-100-10M-STM-STM
EXT-400-10M-STM-STM
Non-Magnetic Extension Cables

PRB-100-02M-STM-MRI
PRB-400-02M-STM-MRI
Non-Magnetic Optical Temperature Probes

ACC-CON-STM-STM
Non-Magnetic Fiber Coupler



System Specifications	PRB-100-02M-STM	PRB-400-02M-STM
Calibrated Accuracy (10°C to 60°C)	$\pm 0.10^{\circ}\text{C}$	$\pm 0.10^{\circ}\text{C}$
Stability (24 hours)	$\pm 0.03^{\circ}\text{C}$	$\pm 0.03^{\circ}\text{C}$
Peak-to-Peak Noise (1s averaging)	$\pm 0.02^{\circ}\text{C}$	$\pm 0.02^{\circ}\text{C}$
Measurement Range	-40°C to 100°C	-40°C to 100°C
Immersion Response Time Constant	1.5s	0.3s
Tip Diameter	1500 μm	750 μm
Minimum Bend Radius	15mm	15mm
Probe Materials	Nylon	PVC & Polyimide

