

## MRI & Research Temperature Measurement

Non-magnetic, non-conducting, fiber optic probes with exceptional precision

OSENSA's PRB-400 fiber optic temperature sensors are specifically designed for MRI and RF environments. Not only are these probes immune to high intensity magnetic fields, microwaves, and low-concentration X-rays, but they also offer industry leading accuracy, precision, and reliability. The PRB-400 probes offer an exceptionally fast response time, and are ideally suited for patient monitoring in MRI, Microwave Ablation (MWA) and Radio Frequency Ablation (RFA) applications. The PRB-400 probes are compatible with MRI phantoms for implantable device testing in magnetic fields up to 16 Tesla.

## Product Specifications

### PRB-400-2M-STM



System Specifications	PRB-400-2M-STM
Calibrated Accuracy (10°C to 60°C)	± 0.10°C
Stability (24 hour)	± 0.03°C
Peak-to-Peak Noise (1s averaging)	± 0.02°C
Measurement Range	-40°C to 100°C
Immersion Response Time Constant	0.3s
Tip Diameter	750µm
Minimum Bend Radius	45mm
Probe Materials	PVC & Polyimide

#### Notes:

1. Compatible with OSENSA's FTX-100-LUX+, FTX-200-LUX+, FTX-300-LUX+, FTX-020-OEM, and HTX-100-MRI fiber optic temperature transmitters.
2. Probe lengths can be specified from 0.5m to 20m.
3. For longer distances add extension cable EXT-400-02M-STM-STM, in lengths from 2m to 50m.

#### 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](mailto: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](http://www.osensa.com) or email: [info@osensa.com](mailto:info@osensa.com).

