

PRB-100

Fiber Optic Temperature Probe

MRI & Research Temperature Measurement

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

OSENSA's PRB-100 fiber optic temperature probes 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-100 style is a general purpose, ruggedized, all polymer optical fiber temperature sensor that can withstand daily abuse. The PRB-100 probes are ideally suited for MRI patient monitoring, animal studies and research. The PRB-100 probes are compatible with MRI phantoms for implantable device testing in magnetic fields up to 16 Tesla.

Product Specifications

PRB-100-02M-STM



System Specifications	PRB-100-02M-STM
Calibrated Accuracy (10°C to 60°C)	± 0.10°C
Stability (24 hours)	± 0.03°C
Peak-to-Peak Noise (1s averaging)	± 0.02°C
Measurement Range	-40°C to 100°C
Immersion Response Time Constant	1.5s
Tip Diameter	1500µm
Minimum Bend Radius	15mm
Probe Materials	Nylon

Notes:

1. Replaces PRB-MR1 style probes.
2. Compatible with OSENSA's FTX-100-LUX+, FTX-200-LUX+, FTX-300-LUX+, FTX-020-OEM, and HTX-100-MRI fiber optic temperature transmitters.
3. Probe lengths can be specified from 0.5m to 10m.
4. For longer distances add extension cable EXT-100-02M-STM-STM, in lengths from 2m to 20m.

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.

