

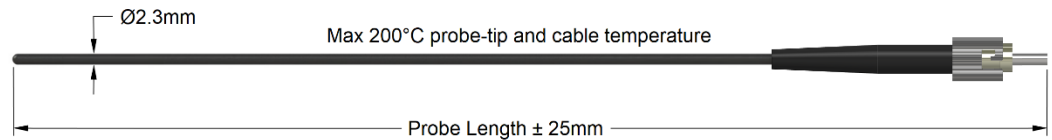
# PRB-GB3 Fiber Optic Temperature Probe

## Reliable Direct Contact Temperature Sensing

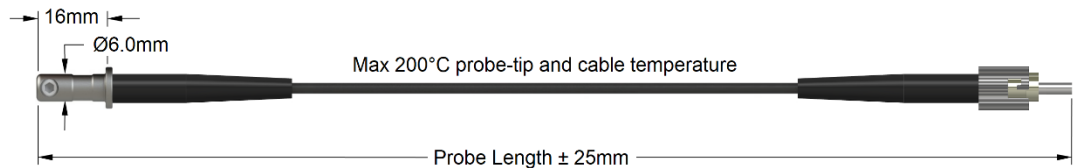
OSENSA's general purpose PRB-GB3 style optical temperature probes are suitable for use in a variety of medium voltage, microwave, food processing, and research applications. They are 100% immune to high voltage, microwave, and electromagnetic interference. Use these sensors to monitor air-insulated switchgear, bus bars, motors, generators, cast resin transformers, circuit breakers, and diode heat sinks. Install them in microwave drying ovens or use them to control food processing equipment. The probe tip is sealed inside an FEP jacket that is compatible with most chemical environments and epoxy impregnation processes. The probes are constructed from durable, high dielectric strength materials and have been tested to safely operate on equipment rated up to 38 kV. These probes have a design service life of over 50 years and never require calibration. Use them to replace failing RTD's in industrial applications.

## Probe Specifications

### PRB-GB3-03M-ST-L



### PRB-GB3-03M-ST-L-TP2



Model #	Maximum	Sensing Range	Accuracy	Jacket	Bend Radius
PRB-GB3-03M-ST-L (-TP2)	38 kV, 3 phase	-40 to +200°C	±1.0°C	FEP	8 mm

During installation a short-term 3mm bend radius is OK. Probe contains multiple individual glass fiber strands which may be damaged if pinched or crushed. Avoid attachment points that might induce stress on the fiber during thermal expansion or contraction.

### CONNECTOR RING MOUNTING OPTIONS



Notes:

1. Tested to IEEE C37.23-2003 "IEEE Standard for Metal-Enclosed Bus". Do not use in oil-filled transformers!
2. Compatible with OSENSA's FTX-301-PWR+, FTX-602-PWR+, HTX-100-PWR, and FTX-300-LUX+ Fiber Optic Temperature Transmitters.
3. Standard length is 3M (10 feet). For custom probe lengths up to 20M contact OSENSA.
4. For longer distances add extension cable EXT-100-10M-ST-ST, in lengths 10M or 25M.

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

