Powell BriteSpot G3™ Module

INSTANT. ACCURATE. 24/7 FIBER-OPTIC TEMPERATURE MONITORING

INTRODUCING THE BRITESPOT G3™ FIBER-OPTIC TEMPERATURE SENSOR

Presenting the new G3 , the culmination of over 5 years of successful installation experience with BriteSpot Technology. The latest product evolution provides a unique combination of high-density sensor deployment with advanced preventative maintenance algorithms.

Intended for locations that are difficult to access or extremely critical, BriteSpot Fiber Optic Technology provides constant temperature data from a wide variety of sources. Optical probes can be mounted to busbars, splices, disconnects, cable connections or any source of resistive heating. Simply attach the dielectrically invisible probes to the locations of interest and connect them to the electronics.

- **9 OR 18 INDEPENDENT SENSORS**
- **REAL-TIME THERMAL MONITORING**
- **ADVANCED PREVENTATIVE MAINTENANCE ALARMS**
- **INSTALL ON ANY EQUIPMENT**
- **MONITORS INACESSIBLE EQUPIMENT**
- **ETHERNET/IP, MODBUS TCB, RS-485**

ADVANTAGES OVER INFRARED

BriteSpot Technology has many advantages over periodic IR scanning. The most obvious benefits come from the real time nature of the data at locations that are completely inaccessible to IR scanning. In addition, the absolute measurement accuracy of the probes is not subject to operator errors, as is the case with IR.

The fiber optic probes are built for longevity and never require calibration for the lifetime of the product.
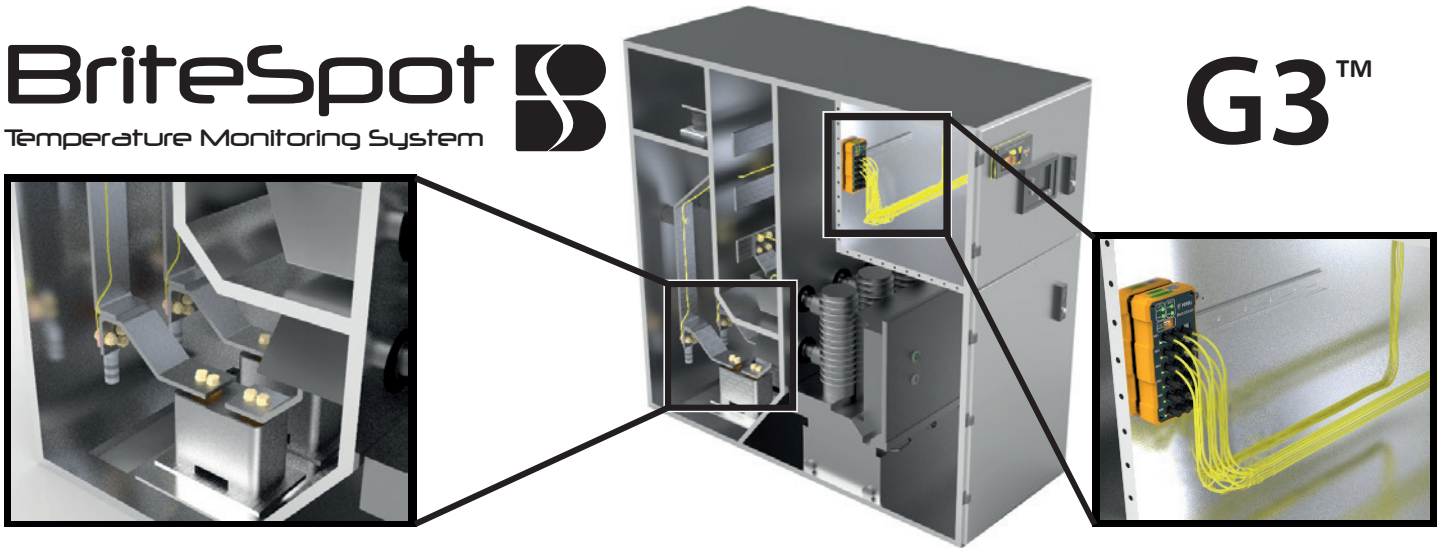
BriteSpot
Temperature Monitoring System

G3™

DATA ACCESS

Data from the G3 can be accessed in real-time via Serial MODBUS, TCP/IP MODBUS, or Ethernet /IP industrial protocols. Data logs are also stored on-board the G3, providing up to 100 years of logging which can easily be downloaded via a standard Ethernet connection.

NEW THERMALERT ™
ADVANCED PREVENTATIVE MAINTENANCE ALARMING

The G3 is equipped with a revolutionary new data processing feature intended to drastically simplify decision making. No longer do you need to worry about interpretation of raw data, simply install the sensors and monitor a single ThermAlert™ register. The G3 will collect, interpret, and archive the data and alert you only when action needs to be taken. Ideally suited for locations that are both challenging to access and prone to thermal issues, including

- Main Bus Compartments
- Low / Medium Voltage Switchgear
- Switchboards and Panels
- Fan-Cooled Circuits

HW Specification:	
Power:	24VDC/0.2A
Relay:	Alarm 2A/250V
Mounting:	35mm DIN
Dataloging:	16 MB
Internal Clock:	40 days Supercap backup

Communication:	
RS485:	38kBaud
Ethernet:	10/100M Auto MDIX
Protocols:	Modbus RTU RS-485
	Modbus TCP/IP
	EtherNet/IP
	HTTP config Webpage
FW upgrade:	Bootload ever Ethernet

Measurement Specification:	
Number of Channels:	9/18
Temperature Range:	-20°C to + 120°C
Resolution:	1°C
Accuracy:	+/- 2°C
Sensor AC withstand:	80kVAC
Fiber Length:	10m

Powered by Safety®