

# Fiber Optic Temperature Sensing for High Voltage Industrial Applications

## FTX-602/302-PWR+ Temperature Transmitter

### 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 process control 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).



FTX-602-PWR+

### Reliable Fiber Optic Thermal Monitoring

OSENSA's PWR+ series fiber optic temperature transmitter offers scalable industry leading performance. Each signal conditioner accepts either three or six optical fiber sensor inputs for convenient three-phase monitoring of hot spots in generator and transformer windings, on bus bars in switch gear, or critical connection points on transmission cables and circuit breakers. The FTX-602-PWR+ and FTX-302-PWR+ are powered by 12-24VDC and include isolated RS-485 serial connectivity over industry standard Modbus RTU protocol. Multiple transmitters can be connected in series on a standard 35mm DIN rail with power and RS-485 communication supplied by the five-pin T-Bus connector.

## Product Specifications

| Model Name             | FTX-602-PWR+                                                                                                                                                                | FTX-302-PWR+    |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Number of Channels     | 6                                                                                                                                                                           | 3               |
| Analog Output          | None                                                                                                                                                                        | None            |
| Digital Interface      | Isolated RS-485                                                                                                                                                             | Isolated RS-485 |
| Measurement Range      | -40°C to +200°C                                                                                                                                                             |                 |
| Resolution             | 0.1°C                                                                                                                                                                       |                 |
| System Accuracy        | ±1.0°C                                                                                                                                                                      |                 |
| Update rate            | 30 Hz                                                                                                                                                                       |                 |
| Comm. Protocol         | Modbus RTU, Half Duplex                                                                                                                                                     |                 |
| Status Indication      | 3 Color Flashing and Solid LEDs                                                                                                                                             |                 |
| Operating Humidity     | 0 to 95% RH (Non-Condensing)                                                                                                                                                |                 |
| Operating Environment  | -40°C to +65°C                                                                                                                                                              |                 |
| Power                  | 12-24 VDC (2.5W max)                                                                                                                                                        |                 |
| Dimensions             | 114mm Tall x 22.5mm Wide x 102mm Long                                                                                                                                       |                 |
| Mounting               | 35mm DIN Rail                                                                                                                                                               |                 |
| Configuration Software | OSENSAView or OSENSAView Pro                                                                                                                                                |                 |
| Product Compliance     |   |                 |

For use with OSENSA's medium voltage temperature probes:

- PRB-PF1-xxM-ST-L
- PRB-GB3-xxM-ST-L