

InsuLogix® T3 MULTI-CHANNEL TEMPERATURE MONITOR

FIBER OPTIC TEMPERATURE SENSOR MEASUREMENT FOR INDUSTRIAL APPLICATIONS

Monitoring up to 16 measurement channels, the Weidmann InsuLogix® T offers reliable multichannel temperature monitoring.

TEMPERATURE MEASUREMENT APPLICATIONS

- Power Transformers
- Reactors and Generators
- Switch gear
- Industrial process monitoring
- Magnetic field environments, including MRI
- High voltage and plasma environments, including semiconductor manufacturing
- Remote monitoring and data logging
- Radiation environments

INSULOGIX® T MONITORING SYSTEM DESCRIPTION

- Gallium-Arsenide temperature sensing elements
- Choice of 2 to 16 measurement channels
- Large 7" TFT display
- Data recording in internal memory
- Software function allowing logic definition for channel to relay allocation
- Configurable with one alarm relay per channel
- Configurable with one analog output per channel
- Watchdog function
- System and sensor fault relay
- Modbus, DNP3, IEC61850, IEC60870-104 communication protocols
- Can be supplied with Weidmann Certified SmartSpacer™
- Complete immunity for fiber optic probes and sensors to RFI, EMI, NMR and microwave radiation
- No drift, no re-calibration required
- Comprehensive warranty plan

DESIGNED, BUILT, AND TESTED BY WEIDMANN

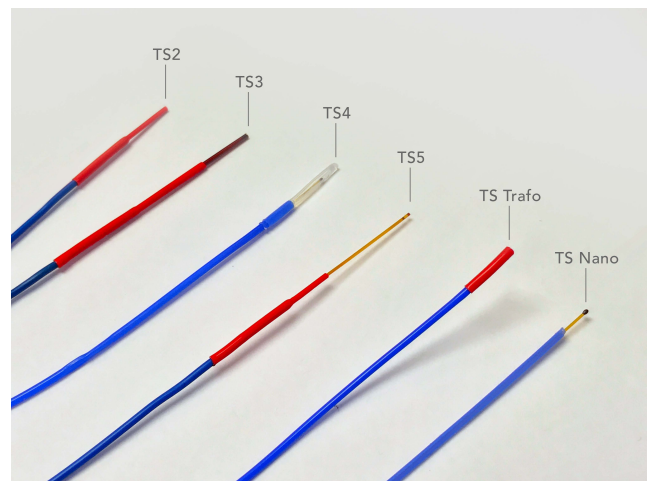
The InsuLogix® T3 hot spot fiber optic temperature monitoring system is designed and manufactured by Weidmann, the global leader in transformer insulation design and manufacturing.

TECHNICAL SUPPORT

As global leaders in fiber optic sensors, Micronor Sensors and Weidmann can provide unique and quality technical support and training to Endusers and OEMs for:



InsuLogix® T Monitor



Full range of Application-Specific GaAs Sensors

AVAILABLE WITH WEIDMANN CERTIFIED SMART SPACER®

All Weidmann Smart Spacer® products are certified as individual components that are integral to the liquid-immersed EHV and UHV insulation systems found in high power transformers on the electric power grid.

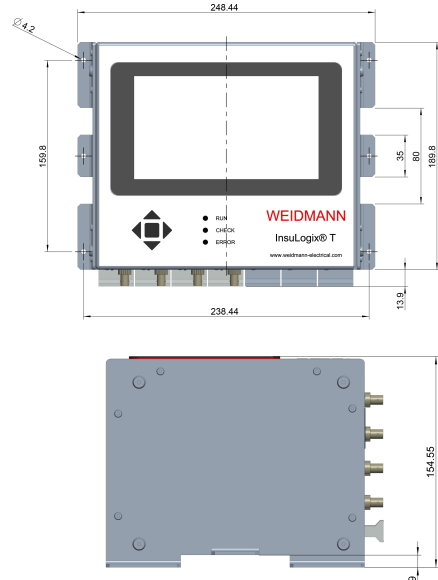


Certified Smart Spacer® with TST sensor—design example

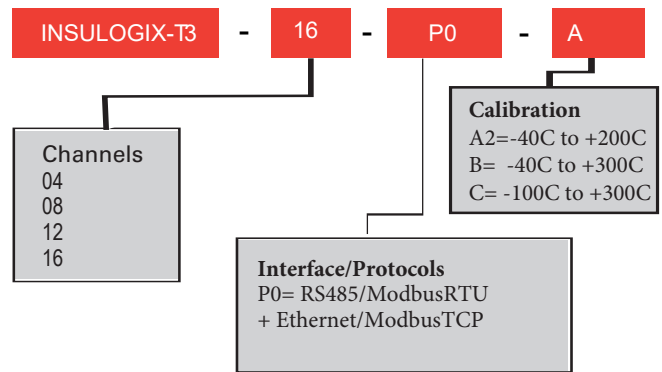
InsuLogix® T System Key Specifications

| | |
|-----------------------------------|--|
| Instrument number of channels | 4, 8, 12, or 16 |
| Fiber optic protection | PTFE sheath, optional PTFE spiral wrap |
| Temperature measuring range | -40 °C to 200 °C |
| Accuracy | < ± 1 K |
| Resolution | 0.1 K |
| Measuring time/channel | 250 ms |
| Operating temperature | -20 °C to 70 °C |
| Light source lifetime | Life of transformer |
| EMI/RFI susceptibility | Immune |
| Operation in environment humidity | Up to 95% RH non-condensing |
| Display | Large 7" TFT display; Allows for system complete configuration |
| LED | Three operation, health and alarms status LEDs |
| Data recording | Event log; temperatures recording; capacity sufficient for life of transformer |
| Communication protocols | Modbus RTU; DNP3*; IEC61850*; IEC60870-104* *Optional |
| Analog outputs | 4-20 mA |
| Relays | One per channel; System health relay comes standard; Relays are rated 5 A/240 V AC or 0.3 A/240 V DC or 8 A/24 V DCs |
| Power consumption | Maximum 40 W |
| Power supply | 24 V DC; Can be supplied with power converter to match any requirement |
| Dimensions and weight | 248,44 mm x 203.7 mm x 154.55 mm 1.9 Kg |
| Standards | Tested for: Vibration and shocks during operation and transportation; Earthquake; Humidity operation; temperature operation; ESD; Radiated emissions; conducted emissions; electrical fast transient/burst; surge; radiated and conducted RF immunity; power frequency immunity; voltage dips and interruptions; damped oscillations; insulation; impulse. Test reports available upon request |
| Warranty* | 5 years; 10 years warranty plan available |

*After system installation on transformer the warranty applies to InsuLogix® T controller only

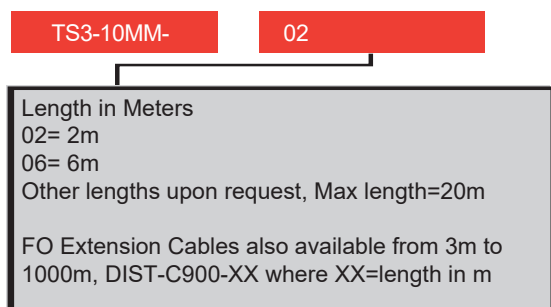


INSULOGIX® T3 INSTRUMENT ORDERING CODE



Standard 16-Channel instrument ordering code with standard Modbus RS485 Serial and Ethernet interfaces + A2 Calibration Option: INSULOGIXC-T3-16-P0-A

TS3 Series TEMPERATURE SENSOR ORDERING CODE



DISCLAIMER – PLEASE READ CAREFULLY

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