InsuLogix® T HOT SPOT TEMPERATURE MONITOR

TEMPERATURE MEASUREMENT FOR LIQUID FILLED TRANSFORMERS

Monitoring up to 16 measurement channels, the Weidmann InsuLogix® T offers reliable hot spot winding temperature monitoring, uniquely available with optional Certified Smart Spacer.®

TEMPERATURE MEASUREMENT APPLICATIONS

- EHV/UHV/HVDC Transformers
- Power Transformers
- Distribution Transformers
- Reactors and Generators
- On-Load Tap Changers
- Switchgear
- Bus Bars

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 Smart Spacer®
- 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® T hot spot fiber optic monitoring system is designed and manufactured by Weidmann, the global leader in transformer insulation design and manufacturing.

AVAILABLE WITH WEIDMANN CERTIFIED SMART SPACER®

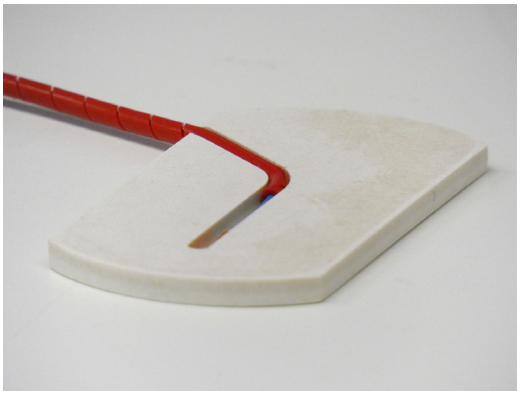
All Weidmann Smart Spacer® products are certified as individual components that are integral to the liquid-immersed EHV and UHV insulation systems found in medium and large power transformers on the electric power grid.

InsuLogix® T Monitor

All Smart Spacer® products are delivered with a certificate of compliance outlining that the assembly has been designed, manufactured, and tested according to a five-part Weidmann certification process as follows:

- Design
- Dielectric analysis
- Functional testing
- Manufacturing processes
- Quality

The Smart Spacer® is subjected to the most stringent tests available today in industry, thus allowing Weidmann to certify the product for use in HV and UHV insulation packages and applications.



Certified Smart Spacer® – design example

WEIDMANN EXPERTISE AND TECHNICAL SUPPORT

As global leader in transformer insulation design and manufacturing, Weidmann can provide unique and quality technical support and training to transformer OEMs for:

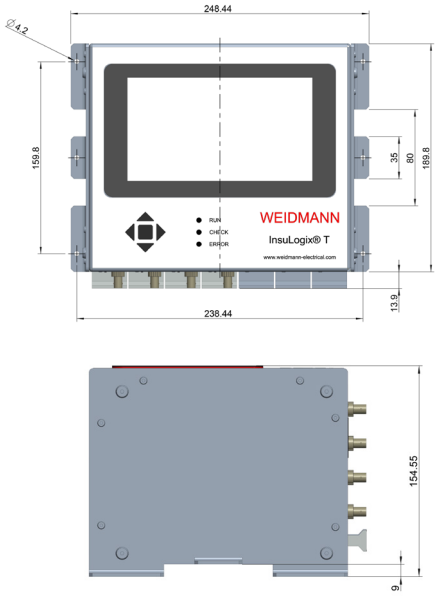
- Fiber optic temperature probes embedding process in transformer various insulation components
- Aspects related to determining the fiber optic probes integration with and impact on insulation structure

WEIDMANN

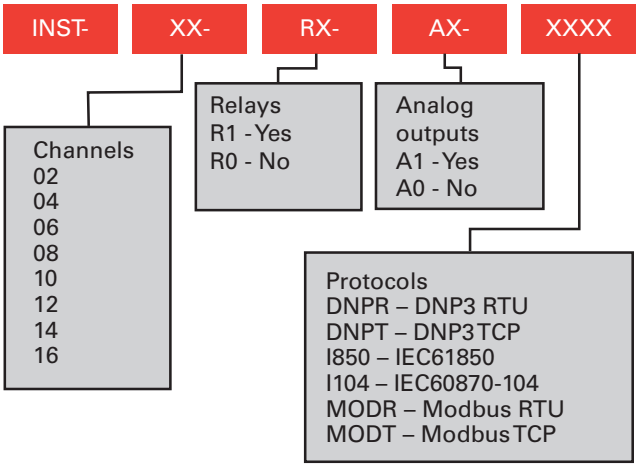
InsuLogix® T System Key Specifications

Instrument number of channels	2 to 16
Fiber optic protection	PTFE sheath, PTFE spiral wrap
Temperature measuring range	-40 °C to 200 °C
Accuracy	< ± 1 °C
Resolution	0.1 °C
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 complete system 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	Optional, one per channel; 4-20 mA or 0-10 VDC
Relays	Optional, one per channel; System health relay comes standard; Relays are rated 5 A/240 VAC or 0.3 A/240 VDC or 8 A/24 VDC
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 shock 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

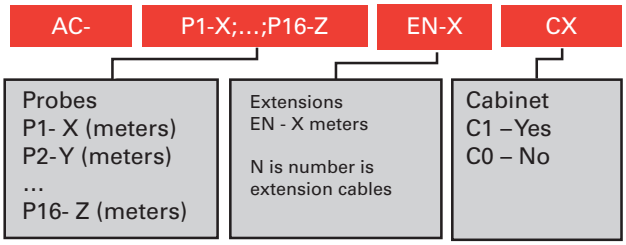


INSULOGIX® T INSTRUMENT ORDERING CODE



Standard instrument ordering code: INST-08-R0-A0-MODR

INSULOGIX® T ACCESORIES ORDERING CODE



Example of code for 4ch instrument accessories:
AC-P1-5;P2-5;P3-8;P4-8;E4-10;C0

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