

ZYGGOT[®] Temperature

Online Non-Contact Thermography System



varixx

ZYGGOT[®] Temperature

Predictive maintenance with Online Thermography

ZYGGOT Temperature is a Non-Contact Online Thermography system that was developed for low and medium voltage panels and other applications with critical electrical connections.

The sensors measure the temperature continuously, without physical contact, using infrared detection. Each sensor measures two temperature levels: from the monitored point and from the surrounding air, allowing fault detection in places not usually measured with indirect heating.

The relays provide local protection and also through the supervisory system. Alarm and Trip levels are freely programmable for each point. An eventual failure in one of the sensors does not interrupt the operation of the other sensors.



> Features



Predictive diagnostics



No need to open the panel



Replaces traditional thermography



Monitoring continuous



Contactless measurement



Network communication

> Low and medium voltage solutions

The Zyggot Temperature Sensor is a predictive maintenance tool, monitoring the temperature of low and medium voltage electrical panels or other critical electrical connections. The sensors measure temperature continuously (online). Each sensor measures two temperature levels: the point and the surrounding air. They are connected in a certain way that allows a fast, error-free and tool-free installation.

Each relay supports up to 125 sensors, and the reading values for each sensor can be plotted on a graph on the relay or using a supervisory system. The cables available range from 0.3 to 8 meters.



Temperature Sensor

Sensor specifications:

MEASUREMENT ANGLE	TARGET TEMPERATURE	LENGTH
7°	0 to 300°C	53mm (2,08 in)
PRECISION	ENVIROMENT TEMPERATURE	COMMUNICATION
+/- 2,5% F.S.	0 to 75°C	Modbus RTU
EMISSIONITY	POWER SUPPLY	MATERIAL
Adjustable (0,95 default)	24 Vdc	Stainless Steel Polycarbonate
RESOLUTION	DIAMETER	
1°C	19mm (0,74 in)	

> Low voltage solutions

The Zyggot LV (Low Voltage) Temperature Sensor was developed for applications in low voltage electrical panels that require a large number of sensors in a small space with many critical points and connections for thermography. It can be attached by screw or stainless steel tape directly to the busbar, ensuring space savings without compromising insulation. Temperatures can be monitored online/continuously on a relay screen or in a supervisory system. Low-cost solution, supporting up to 125 sensors with available cables ranging from 0.3 to 8 meters.



Low-Voltage Temperature Sensor

Sensor specifications:

MEASUREMENT ANGLE	TARGET TEMPERATURE	LENGTH
60°	0 to 120°C	54mm (2,12 in)
PRECISION	ENVIROMENT TEMPERATURE	COMMUNICATION
+/- 2,5% F.S.	0 to 75°C	Modbus RTU
EMISSIONITY	POWER SUPPLY	MATERIAL
Adjustable (0,95 default)	24 Vdc	Polycarbonate
RESOLUTION	DIAMETER	
1°C	31mm (1,22 in)	

ZYGGOT[®] Temperature

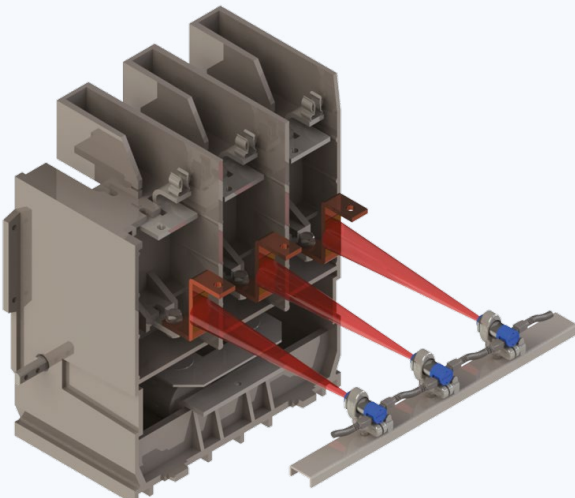
Topography and Sensors



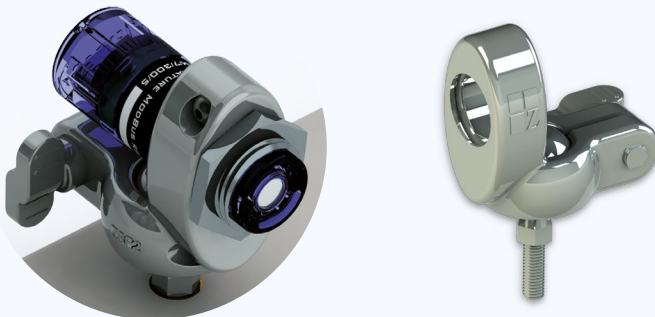
Tubular Sensor



Low-Voltage Sensor



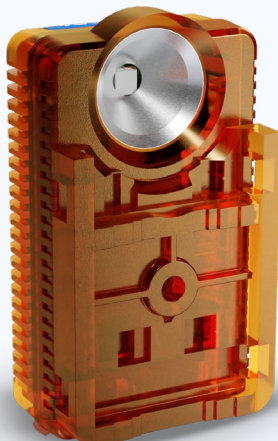
Targeted measurement
at critical points



Support for fixing
and sighting



Sensor fixed directly
on the busbar



Sensor backside

Ethernet TCP-IP

Temperature Touch Relay

POWER SUPPLY

24 Vdc

INPUTS

- 4 analog (light version)
- 4 analog (full version / 0 - 5 Vdc)
- 4 digital (light version)
- 12 digital (full version / 24 Vdc)

OUTPUTS

- 2 outputs for Alarm and Trip (N.O.)
- 2 programable outputs (N.O. / light version)
- 10 programable outputs (N.O. / full version)
- 1 output for connecting the sensors

SCREEN

Color, Touch screen WVGA



HUMIDITY

5 to 95%

NUMBER OF SENSORS

Up to 125 sensors

RESOLUTION

1°C

COMMUNICATION

- Modbus RTU
- Ethernet TCP-IP (included)

Temperature Relay

POWER SUPPLY

24 Vdc

INPUTS

- 4 analog
- 8 digitals (24 Vdc)

OUTPUTS

- 2 outputs for Alarm and Trip (N.O.)
- 4 programable outputs (N.O.)
- 1 output for connection of the sensors

HUMIDITY

5 to 95%

NUMBER OF SENSORS

Up to 125 sensors

RESOLUTION

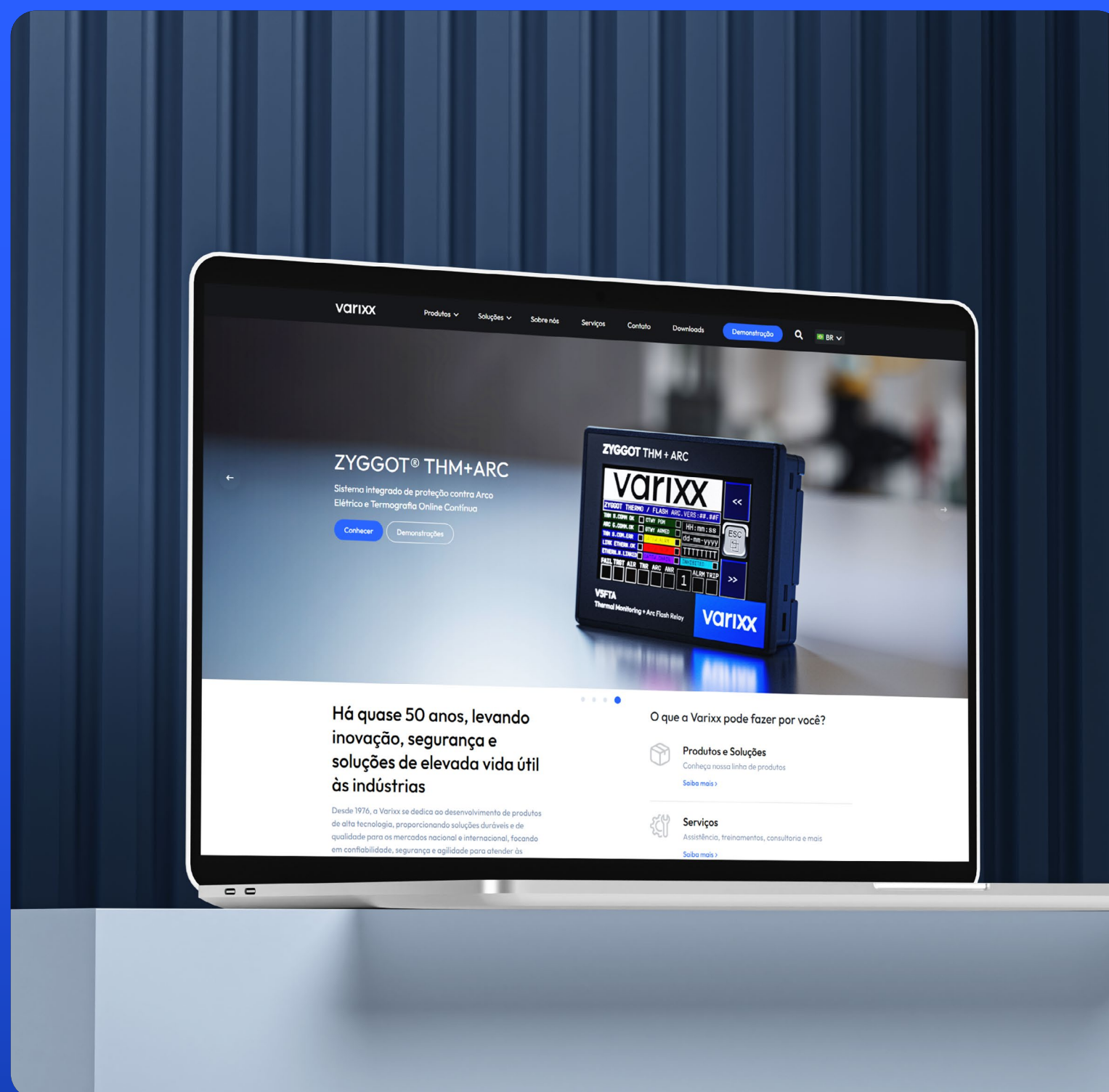
1°C

COMMUNICATION

- Modbus RTU
- Profbus DP (optional)



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Since 1976, Varixx has been developing high-tech products. Its know-how in power electronics has always enabled it to offer a wide range of products that have become known for their innovation, long service life and quality. As the holder of numerous technological patents, Varixx strives to introduce functional and intelligent concepts to the domestic market and worldwide.

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