

WIRE-TEMP 6000

Conductor temperature measuring system
for cable production lines



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During the production of cables or wires, the conductor is heated prior to the extrusion process to ensure optimum adhesion of the insulation.

With the WIRE-TEMP 6000, SIKORA presents an innovative system for precise online measurement of the conductor temperature. The WIRE-TEMP 6000 is easily installed in insulating as well as CV lines after the preheater.

With utmost accuracy, the WIRE-TEMP 6000 continuously measures the temperature of the conductor prior to entering the extruder, assuring repeatability during the production process.

Designed for diameters from 0.32 to 5.0 mm, alternatively from 5.0 to 50 mm, the system is laid out for conductor temperatures up to 150°C, optionally up to 250°C. The non-contact measurement of the temperature is independent of the cross-section, the material and the surface structure of the conductor.

A big advantage compared with conventional systems is that the temperature measurement is done by means of a thermal image sensor in an infrared camera. This innovative technology does not require calibration and provides for accurate measurements for any conducting material.

Typical features

- Non-contact temperature measurement
- Easy to operate, no calibration
- Temperature display and operation directly at the device
- Free from wear
- Easy to integrate into existing lines



WIRE-TEMP 6050



Certified according to
DIN EN ISO 9001

ISO 9000 verification

According to European standards, openly operated measuring and testing equipment has to be checked regularly. For the calibration and verification of the precision of the WIRE-TEMP 6000, SIKORA offers a calibration set containing a 1 mm diameter gold-coated sensor with a very low emission value and oxidation capability, which guarantees a precise measurement and a long service life. The associated handheld console provides accurate measuring values directly at the device or for a later PC-analysis. The calibration is easy and fast, it ensures regular safety for production lines by comparing contact and non-contact temperature measurements.

Technical Data WIRE-TEMP 6000

Functional principle

Non-contact measurement of the conductor temperature

Applications

Al, Cu, Fe, others on request
All kinds of cable production lines

Product diameter

WIRE-TEMP 6005: 0.32 - 5.0 mm (0.07 - 19.6 mm²)
WIRE-TEMP 6050: 5.0 - 50 mm (19.63 - 1,963 mm²)

Permissible environmental temperature

+ 15 to + 45 °C

Conductor temperature

+ 50 to + 150 °C (optional at WIRE-TEMP 6005: + 250 °C)

Line speed

WIRE-TEMP 6005: up to 2,000 m/min

Interfaces

RS485, RS232 service interface, EtherNet/UDP
Optional: analog interface, 4 digital inputs and 4 contact outputs, industrial fieldbus (e.g. Profinet IO, EtherNet/IP, Profibus-DP, CANopen, DeviceNet)

Power supply

115 or 230 V AC ± 10 %, 47 to 63 Hz

Technical data is subject to change

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