SIKORA
Technology To Perfection

WIRE-TEMP 6000

Conductor temperature measuring system
for cable production lines

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Certified according to DIN EN ISO 9001

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, 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 6000

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
0.32 - 5.0 mm (0.075 - 19.63 mm²)

Permissible Environmental Temperature
+ 15 to + 45 °C

Conductor Temperature
+ 50 to + 150 °C
(optionally + 250 °C)

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

Interfaces
RS485, RS232 service interface, EtherNet/UDP, analog setting of the temperature 0 to 10 V ≅ 0 to 250 °C
Optional: analog output, interface with 2 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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