



Temperature Transmitters



Components in production process of synthetic filaments
Temperature transmitter for heated draw rolls – UTR-4 / UTR-4A



Characteristics

- 1 temperature transmitter for 1 to 6 individual heating zones (up to 6 x PT100 inputs)
- Plug-in PT100
- Completely sealed, no connections in the hot part of the roll
- Information on status for system analysis, sensor equipped for environment condition check
- PT100 error monitoring with detailed information
- Used in combination with CR-7 (single/multizone) controller or USC signal converter

Advantages

- Few components, easy maintenance
- Fast fitting using screws and plug
- No wiring on the spot, no stripping nor screwing of contacts
- Can be supplied for up to 6 independent measuring zones
- Data transfer in digital form. Accuracy of measurement unaffected by cable length
- Hot plug technology (no power off needed at exchange)
- Low power consumption
- Robust design
- Additional safety by environment checking sensor

Applications

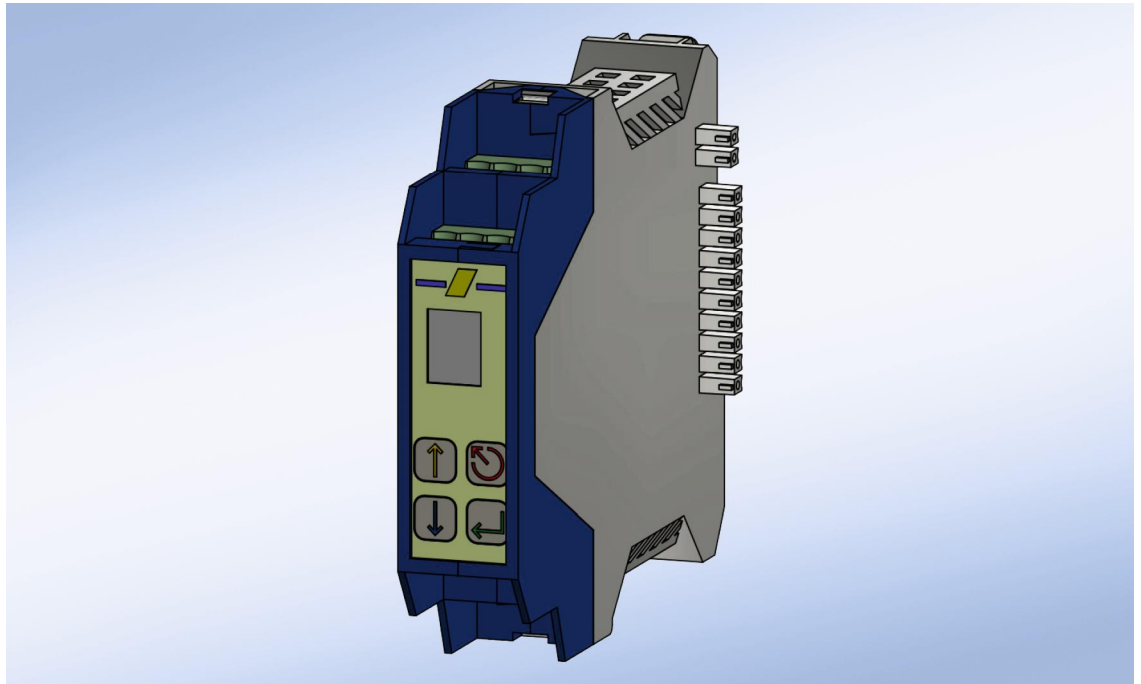
- Direct connection to Retech temperature controller CR-7 or USC signal converter (4 – 20 mA, 0 – 10 V, frequency, etc.)
- PLC read-out for user specific controls
- Supervision of high-temperature rolls up to 500 °C



Temperature Controllers



Components in production process of synthetic filaments
UCR-6 / CR-7 (single/multizone/multichannel) controller



Characteristics

- 6 individual heating positions on 1 board (6 x PT100 inputs, 6 x power / SSR outputs)
- Direct access to PT100
- 1 controller for up to 6 individual heating zones
- 1 to 6 x PT100 inputs, 1 to 6 x power / SSR outputs
- Diverse integrated bus systems (Profibus, RS-485, CAN)
- Heating-overtemperature monitoring
- DIN rail mounted
- Used in combination with UTR temperature transmission system

Advantages

- Located close to the machine or inside a control cabinet
- All cables fitted with plugs (easy connection and maintenance)
- 1 to 6 x or 6 x individual control loops with independent heating parameters giving an excellent temperature profile (temperature control accuracy $\pm 0.5^{\circ}\text{C}$)
- Can be integrated to existing machine control using diverse bus systems or can be supplied as independent system via Retech software and panel
- Softstart for power (low mains load)
- Low power consumption

Applications

- Control of godets with temperature transmitter
- Control of heaters with PT100