

## RES-5010

### Replacement instruction



The new RESISTRON temperature controller RES-5010 (after date of manufacture 04/2016) was fitted with a more powerful processor to enable new functionalities. Furthermore new features and interfaces were integrated and an approval for the American and Canadian market is existing. The RES-5010 in his

actual version is downwardly compatible to the previous models, except the terminal assignment. Thus it is possible to integrate the controller as an alternative in existing machines.

The following section describes the changes of the new generation:

### Unit connection

#### 1. Select the unit

The line voltage for the RES-5010 can be selected in the range of 110VAC to 415VAC. A distinction between 115VAC, 230VAC and 400VAC line voltage is no longer necessary.

Line voltage	Art. No.	Art. No.
115VAC	7501001	7501000
230VAC	7501002	
400VAC	7501003	

#### 2. Terminal assignment

The 24VDC supply voltage were laid from the terminals 20 and 19 to the terminals 5 and 7. The separate 2-pin terminal block (for pin 19 and 20) therefore no longer exists.

The terminal block for the power supply (pin 1 to 4) is UL-listed and mechanically no more compatible to the previous terminal block. However the terminal assignment remains unchanged.

Description of the terminal block:



Terminal for the units with Art. No.  
7501001  
7501002  
7501003



Terminal for the unit with Art. No.  
7501000

#### 3. Required components:

Trouble-free operation of the RES-5010 is only guaranteed in combination with the following components:

- PEX-W3: current transformer without UL  
Art. No. 885105
- PEX-W4: current transformer with UL  
Art. No. 885106
- LF-06480: line filter 6A, 480VAC with UL  
Art. No. 885500
- LF-35480: line filter 35A, 480VAC without UL  
Art. No. 885506

**⚠ In order to avoid malfunctions, the RES-5010 is only allowed to be operated with the specified components.**

## New functionalities

- A micro-USB interface is directly available. The RES-5010 can be connected directly to a PC, to facilitate maintenance and startup with the visualisation software ROPEX Visual®. The CI-USB-1 is no longer necessary.
- The integrated webserver provides information of the unit, state of communication, error messages, errorlist and configuration files.
- Multiple AUTOCAL-parameters (up to 8 channels) enable a quick change of different sealing tools.
- The extension of the communication protocol enables the selecting of the AUTOCAL-parameters in the section of the I/O-data.
- The parameter data were extended to determine individual values for the different AUTOCAL-channels.
- The start temperature of every single heating impulse is provided in another data word in the section of the I/O-data.
- The GSDML-file was extended about the new functionalities (*GSDML-V2.32-ROPEX-0150-RES-5010-20151014.xml*). The previous GSDML-file (*GSDML-V2.2-ROPEX-0150-RES-5010-20120911.xml*) can be used furthermore.

## Certification

- The RES-5010 support the Conformance Class C of the Profibus Nutzerorganisation e.V. (PNO).
- Certification according to the PROFINET specification V2.3, certificat Z10450.
- Approval for the American and Canadian market by the certification of the UL (Underwriters Laboratories).



# Wiring diagramm of the RES-5010

