

RES-5006

Changeover instructions RES-406 RES-5006



The new RESISTRON temperature controller RES-5006 (production date starting from 09/2019) has been equipped with a more powerful processor to enable new functionalities. In addition, new functions and interfaces have been integrated. The current version of the RES-5006 is downward compatible with the previous devices. It can thus be integrated into existing systems as a replacement. The changes of the new generation are described below.

Device connection

1. Device selection

The power supply for the RES-5006 can be in the range from 110 VAC to 415 VAC. It is no longer necessary to distinguish between the power supplies 115 VAC, 230 VAC or 400 VAC.

Network voltage	RES-406 Art. no.	RES-5006 Art. no.
115 VAC	740601	7500600
230 VAC	740602	
400 VAC	740603	

2. Terminal assignment

The terminal strip for the power supply (terminals 1 to 4) is no longer mechanically compatible with the previous terminal strip. However, the terminal assignment has remained identical.

Representation of the terminal strips:



Power supply terminal for RES-406 with art. no.

740601
740602
740603



Power supply terminal for RES-5006 with art. no.

7500600

3. Associated components

The correct functioning of the RES-5006 is only guaranteed in conjunction with the following components:

- PEX-W3: Current transformer without UL
Article number: 885105 (no longer available)
- PEX-W4: Current transformer with UL
Article number: 885106 (no longer available)
- PEX-W5: Current transformer with UL
Article number: 885107
- LF-06480: Line filter 6 A, 480 VAC with UL
Article number: 885500
- LF-10520: Line filter 10 A, 520 VAC with UL and CSA
Article number: 885504
- LF-35480: Line filter 35 A, 480 VAC without UL
Article number: 885506
- LF-50520: Line filter 50 A, 520 VAC with UL and CSA
Article number: 885509



The temperature controller RES-5006 may only be operated with the specified components in order to avoid malfunctions.

New functionalities

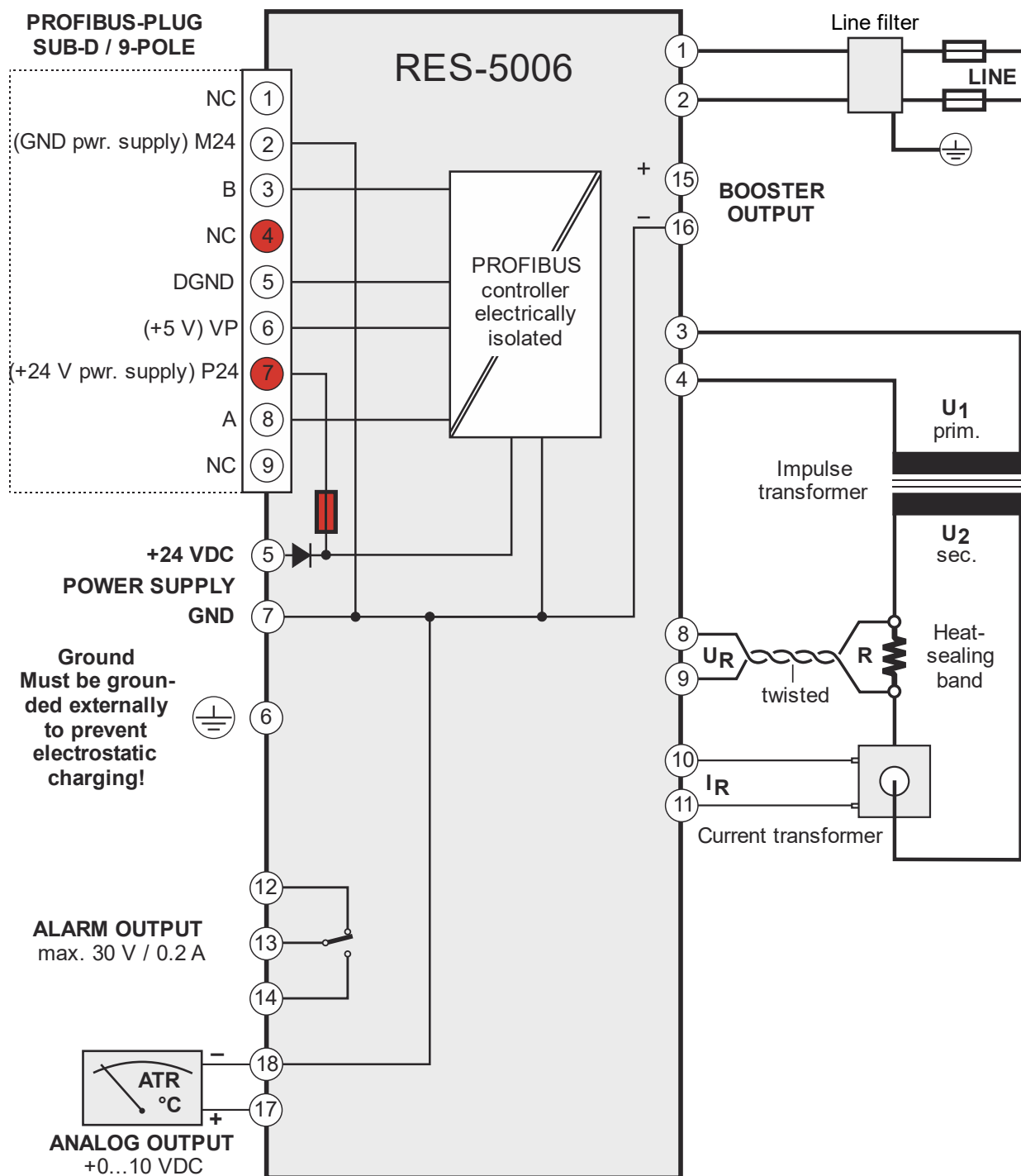
- A micro USB interface is available directly on the device. The RES-5006 can be connected directly to a PC to facilitate maintenance and startup using the free downloadable ROPEX Visual® visualisation software. The CI-USB-1 can no longer be used for this purpose.
- Multiple AUTOCAL parameters (up to 8 channels) allow a quick change of different sealing tools.
- The extension of the communication protocol enables the selection of AUTOCAL parameters in the I/O data area.
- The parameter data have been extended to allow individual values to be defined for the various AUTOCAL channels.
- The start temperature of each individual heating pulse is made available in an additional data word in the I/O data area.
- The GSD file was extended by the new functionalities (*RO0300613.GSD*), but the previous GSD files of the RES-406 can still be used.

A detailed description of the new functionalities is given in the operating manual of the RES-5006. The [operating instructions](#) and the ROPEX_Visual® [visualisation software](#) can be downloaded free of charge in the download area at <https://roplex.de>.

Certification

- Certification according to "Test Specification for PROFIBUS DP Slaves, Version 3.09, September 2008", certificate Z02145.

Wiring diagram RES-5006



The assignment of the PROFIBUS plug has been changed as follows:

Pin	previous assignment RES-406	new assignment RES-5006
4	RTS (Ready To Send)	unused
7	linked to the internal 24 VDC signal via a diode	linked to the internal 24 VDC signal via a fuse