

RES-5008

Changeover instructions RES-408 RES-5008



The new RESISTRON temperature controller RES-5008 (production date starting from 11/2020) 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-5008 is functionally downward compatible with the previous devices. It can thus be integrated into existing systems as a replacement. In particular, the T-408-1 operator terminal can be further used.

 **The assignment of the connection terminals was changed.**

The changes of the new generation are described below.

New functionalities

- A micro USB interface is available directly on the device. The RES-5008 can be connected directly to a PC to facilitate maintenance and startup using the ROPEX Visual[®] visualisation software, which can be downloaded free of charge. The CI-USB-1 can no longer be used for this purpose.
- The BOOSTER connection is provided as standard. The MOD-26 (BOOSTER connection) is no longer required.

A detailed description of the new functionalities is given in the operating instructions of the RES-5008. The [operating instructions](#) and the [visualisation software](#) ROPEX Visual[®] can be downloaded free of charge from the download area at <https://ropex.de>.

Device connection

1. Device selection

The power supply for the RES-5008 can be in the range from 110 VAC to 480 VAC. It is no longer necessary to distinguish between the power supplies 115 VAC, 230 VAC or 400 VAC.

Mains voltage	RES-408 Art. no.	RES-5008 Art. no.
115 VAC	740801	7500800
230 VAC	740802	
400 VAC	740803	

2. Supply

Apart from the power supply, the RES-408 did not require any other voltage supply. The RES-5008 on the other hand requires a 24 VDC supply, which must be connected to terminals 5 (+) and 7 (-).

As long as only this 24 VDC supply is switched on and the power supply is still missing, the RES-5008 remains in a standby status. The actual value 0 °C is displayed on the connected T-408-1 operator terminal.

As soon as the power supply is switched on, the RES-5008 changes to measurement mode or control mode.

3. 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-408 with Art. no.

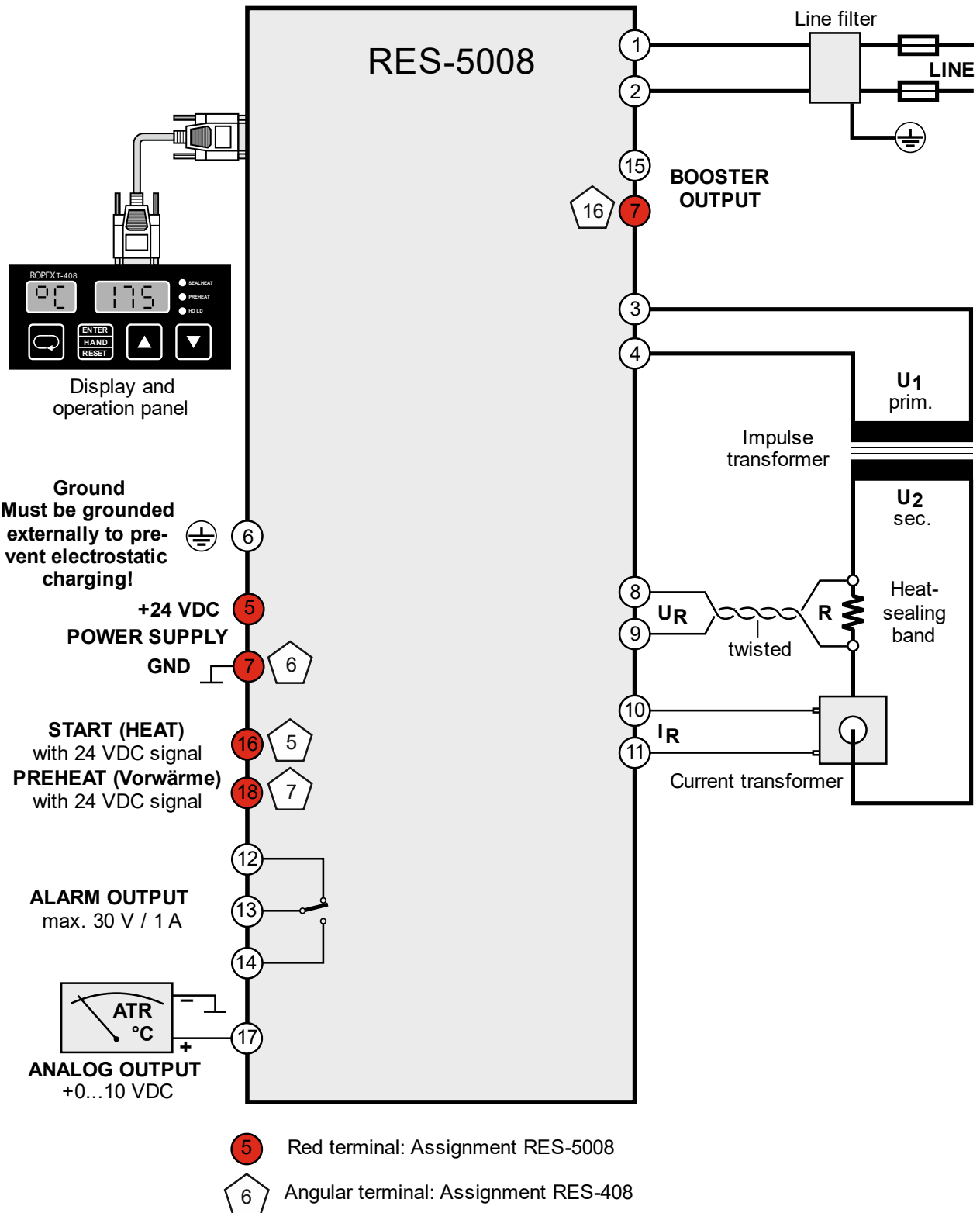
740801
740802
740803

Power supply terminal for RES-5008 with Art. no.

7500800

The assignment of the terminal strips for the control signals (terminals 5 to 18) is no longer compatible with the previous assignment. The following changes were made:

Signal	previous assignment RES-408	new assignment RES-5008
+24 VDC	-	5
START (HEAT)	5	16
PREHEAT (preheat)	7	18
GND	6	7
Reference ground (GND) for ANALOG and BOOSTER output	17 or 16	7



Associated components

The correct functioning of the RES-5008 is only guaranteed in conjunction with the following components:

- T-408-1: Operator terminal
Article number: 885441
- 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-5008 may only be operated with the specified components in order to avoid malfunctions.