

Ignition transformer TRS, TRE, spare part for BCU 460, BCU 465 and BCU 480

BETRIEBSANLEITUNG

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INHALTSVERZEICHNIS

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1 SAFETY

1.1 Please read and keep in a safe place



Please read through these instructions carefully before installing or operating. Following the installation, pass the instructions on to the operator. This unit must be installed and commissioned in accordance with the regulations and standards in force. These instructions can also be found at www.docuthek.com.

1.2 Explanation of symbols

1, 2, 3, a, b, c = Action

→ = Instruction

1.3 Liability

We will not be held liable for damage resulting from non-observance of the instructions and non-compliant use.

1.4 Safety instructions

Information that is relevant for safety is indicated in the instructions as follows:

DANGER

Indicates potentially fatal situations.

WARNING

Indicates possible danger to life and limb.

CAUTION

Indicates possible material damage.

All interventions may only be carried out by qualified gas technicians. Electrical interventions may only be carried out by qualified electricians.

1.5 Conversion, spare parts

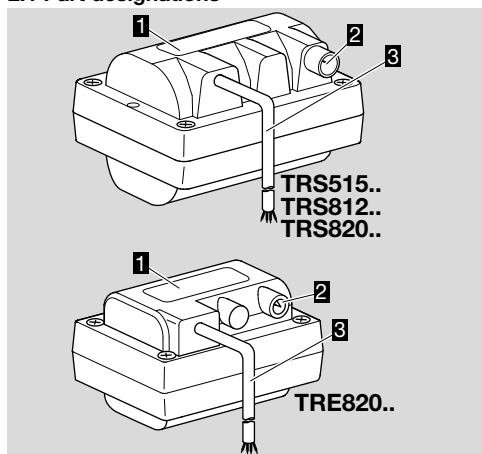
All technical changes are prohibited. Only use OEM spare parts.

2 CHECKING THE USAGE

Ignition transformers TRS and TRE can be used to replace the integrated ignition transformer in burner control units BCU 460, BCU 465 and BCU 480.

This function is only guaranteed when used within the specified limits – see page 4 (6 Technical data). Any other use is considered as non-compliant.

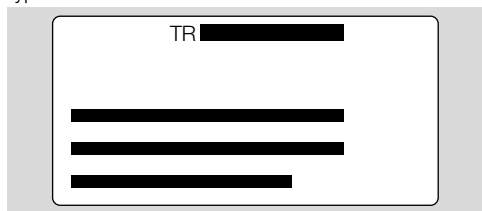
2.1 Part designations



- 1 Type label
- 2 Ignition cable connection
- 3 Connection cable

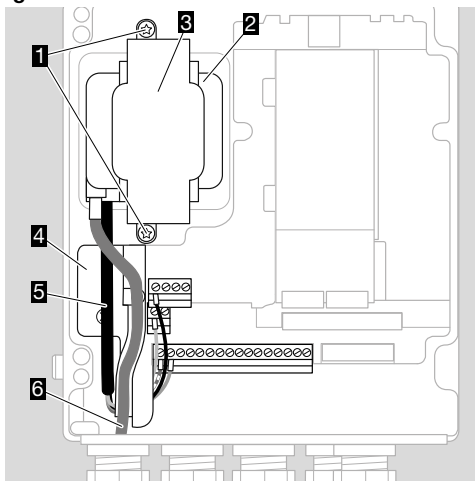
2.2 Type label

Mains voltage, ignition voltage, duty cycle, current consumption, output current, protection class – see type label



3 REMOVING THE IGNITION TRANSFORMER

Ignition transformer in BCU



- 1 Fastening bar screws
- 2 Ignition transformer
- 3 Fastening bar
- 4 Plastic cover
- 5 Connection cable
- 6 Ignition cable

Removing the ignition transformer from the BCU

- 1 Disconnect the BCU from the electrical power supply.
 - 2 Open the BCU.
 - 3 Release the connection cable (5) for the ignition transformer from the connection terminals.
 - 4 Pull out the connection cable under the plastic cover (4).
 - 5 Unscrew the ignition cable (6) from the ignition transformer.
 - 6 Remove the 2 screws (1) from the fastening bar.
 - 7 Take the fastening bar (3) and the ignition transformer (2) out of the BCU.
- The fastening bar and the 2 screws will be reused for installing the new TRS/TRE.
- Weight of ignition transformer: ≤ 2 kg.

4 INSTALLATION

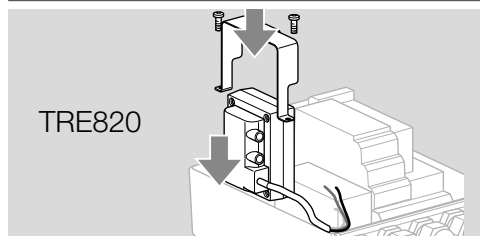
⚠ CAUTION

- The type designation of the old ignition transformer and the new TRS/TRE must be identical to ensure that the parameterized cycle lock matches the TRS/TRE, see also page 2 (2.2 Type label) and page 4 (6 Technical data).

- 1 Position the TRS/TRE in the centre of the housing trough provided for it.

Alignment of fastening bar

Ignition transformer	Alignment of fastening bar
TRE820..	as shown below
TRS515.. TRS812.. TRS820..	turn through 180°

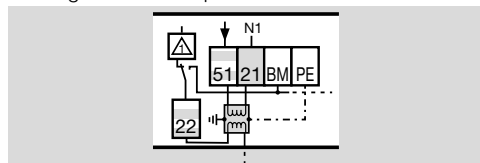


- 2 Secure the fastening bar in the BCU, tightening both screws evenly.

- 3 Thread the TRS/TRE connection cable under the plastic cover. See figure, page 2 (3 Removing the ignition transformer).

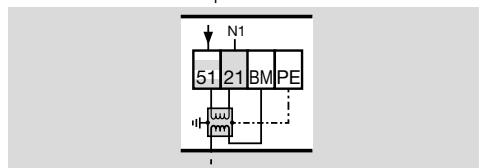
- 4 Make the electrical connection using the same wiring configuration as the old ignition transformer.

→ Single-electrode operation:



Connection cable Ignition transformer	Terminal on BCU 4
Black	51
Blue	21
Brown	22
Green/Yellow	PE

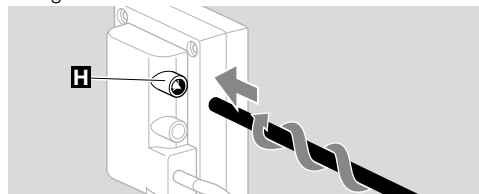
→ Double-electrode operation:



Connection cable Ignition transformer	Terminal on BCU 4
Black	51
Blue	21
Brown	BM
Green/Yellow	PE

- Check the PE connection, see also Technical Information or operating instructions for BCU 460, BCU 465 or BCU 480 (under Connection diagram, Flame control, Double-electrode operation and Single-electrode operation) at www.docuthek.com.

- 5 Screw the ignition cable securely into the high-voltage connection **H** on the TRS/TRE.



- 6 Close the BCU again.

5 FUNCTION CHECK

- 1 Apply voltage to the BCU.

- 2 Apply the start-up signal to the BCU.

→ The TRS/TRE is connected correctly if:

- 1 The BCU starts.
- 2 The ignition starts while the display on the BCU shows **02** or **R2**.
- 3 The connected burner is operating when the display shows **04** or **R4** (BCU 460, 465) or **08** or **R8** (BCU 480).

6 TECHNICAL DATA

Mains voltage:

TRS/TRE..H1: 120 V AC, 50/60 Hz,

TRS/TRE..H2: 230 V AC, 50/60 Hz.

Output voltage:

TRS5: 5 kV,

TRS8/TRE8: 8 kV.

Enclosure:

IP 00.

Ambient temperature: -20 to +60°C.

Type	Material number		Mains voltage [V]	Output			Duty cycle [%] in 3 min. ²⁾
	spare part	in BCU 4xx		[kV]	[mA] ¹⁾		
TRS515PCISOH1	74923411	34340581	120	5	15 (11)	100	
TRS515PCISOH2	74923415	34340585	230	5	15 (10)	100	
TRE820PISOH1	74923412	34340582	120	8	20 (16)	19	
TRE820PISOH2	74923416	34340586	230	8	20 (16)	19	
TRS812PCISOH1	74923413	34340583	120	8	12 (9)	100	
TRS812PCISOH2	74923417	34340587	230	8	12 (9)	100	
TRS820PISOH1	74923414	34340584	120	8	20 (16)	33	
TRS820PISOH2	74923418	34340588	230	8	20 (16)	33	

¹⁾ Values in brackets apply to 60 Hz.

²⁾ For temperatures between -20 and +35°C.

FOR MORE INFORMATION

The Honeywell Thermal Solutions family of products includes Honeywell Combustion Safety, Eclipse, Exothermics, Hauck, Kromschroder and Maxon. To learn more about our products, visit ThermalSolutions.honeywell.com or contact your Honeywell Sales Engineer.

Elster GmbH
Strotheweg 1, D-49504 Lotte
T +49 541 1214-0
hts.lotte@honeywell.com
www.kromschroeder.com

Global centralized service deployment coordination:
T +49 541 1214-365 or -555
hts.service.germany@honeywell.com

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