

## SRS .../ 8-16

Voltage controller



Nominal voltage	<b>230 V (400 V)</b>
Nominal current max.	<b>8 A</b>
Setting ranges voltage	<b>20 - 230 V</b>
Input optocoupler	<b>12 - 32 V</b>
Temperature range	<b>0 - 55°C</b>
Analog input	<b>4 - 20 mA</b>

### Voltage controller

Voltage controller for the adjustment of the effective current of heating cables. Voltage controller for ohmic and inductive loads. Device for top piece installation in the safe area.

Voltage controller

SRS .../ 8 - 16

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**Warning**

The installation, configuration and commissioning may only be carried out by accordingly trained persons. The local installation and safety regulations must be respected.



Read through this operating manual carefully, before you take the device into operation. Keep the operating manual at a place accessible to all users at any time.

Please support us to improve this operating manual. We are grateful for your suggestions.

Please contact us for technical queries!  
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**Reservation**

We reserve the right for technical changes. Aberrations and printing errors do not constitute grounds for any claims to damages. For safety components and systems the relevant standards and regulations as well as the according instruction manual and the assembly instructions should be observed.



**Repair**

Dismantling takes place in reverse order than the installation. A Repair of the device is not possible concerning the switching element. All other repairs may only take place in the factory of the manufacturer. The basic devices (inserted parts without terminal box) are, capillaries excluded, irreparable. These may only be changed in the factory. An intervention is not permitted. Changes, that modify the design of the device, will cause that the validity of the certificate and any claim for damage void.

## 1.0 DESCRIPTION

### Characteristics

- Constant output voltage
- Analog input 4-20 mA
- Easy installation
- Setpoint switchable



The voltage controller is suitable for ohmic and inductive loads similarly. With the help of the voltage controller e.g. the effective current is adjusted for the heating. It is recommended to adjust the current with the help of an ampèremeter that indicates the effective value.

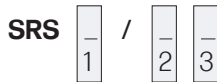
- Constant output voltage by regulating to the adjusted setpoint
- On- and off switching operation via optocoupler (VDE 700-730).
- No semiconductor fuse necessary.

When applying a voltage to the terminals 1+2, the voltage controller switches off.

## 2.0 PRODUCTION NUMBER

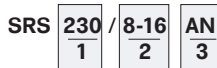
By means of the continuous serial number, the in-house quality management can, in case of repair, find out production month and year. Each device is individually tested and a separate test record is provided. The serial number can be found on the back of the front panel.

### 2.1 TYPE CODE



<b>1</b>		Nominal voltage
<b>2</b>		Nominal current
	8-16	Input optocoupler
	xx	Special construction
<b>3</b>	-	Standard
	AN	With analog input

Example: Nominal voltage 230 V, 8-16 A nominal current, with analog input

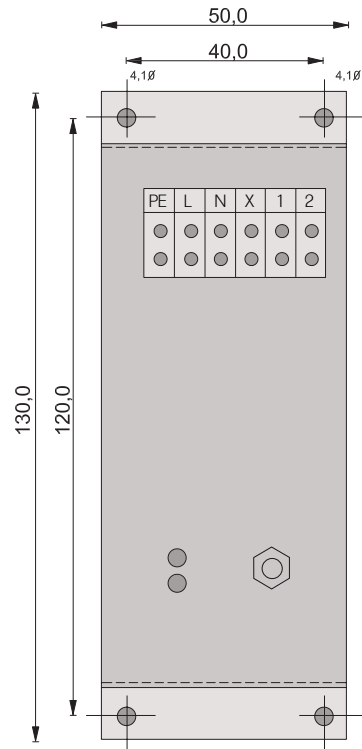


## 3.0 TECHNICAL DATA

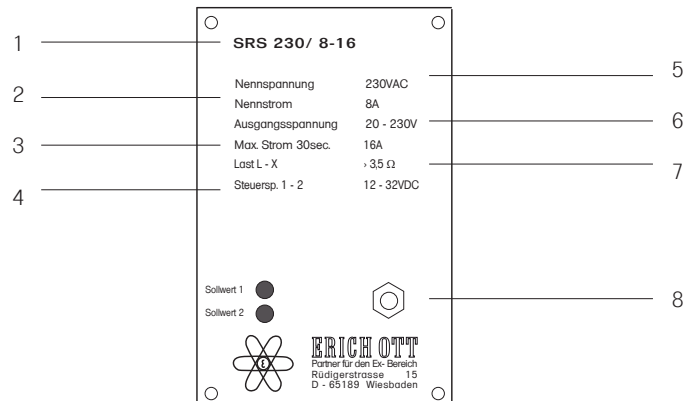
Nominal voltage	230 V (400 V) ~		
Nominal current max.	8 A ( temporary 16 A)		
Control ranges voltage	20 - 230 V ~ (40 - 400 V) according to design		
Max. current load of the semiconductor	0,2 s; 200 - 500 A		
Input optocoupler	12- 32 V, Rj = 5 K Ω Disconnection according to VDE 0700		
Temperature range	0 - 55 °C		
Alternative	without setpoint commutator		
Analog input	4 - 20 mA	4 mA 20 mA	as specified (0 - 190 V)* 230 V ~

\* when 4 mA is not equivalent to 0 v, an according shutoff must be provided for the heating

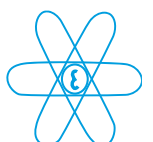
## 4.0 MOUNTING DIMENSIONS



## 5.0 TYPE PLATE



1-	Type designation	5-	Nominal voltage
2-	Nominal current	6-	Output voltage
3-	Max. current 30sec	7-	Load L - X
4-	Control voltage 1 - 2	8-	Toggle switch for setpoint 1 or rather 2





5.1 CIRCUIT DIAGRAM

