

SRS . . .
Voltage controller



Characteristics

- Easy installation
- Effective constant current transmitter
- Current transformer output
- Effective value display

These devices are used for voltage control. By use of the voltage controller the effective current for the heating is adjusted. The adjustment is controlled at the ampèremeter and if necessary monitored at min. current via TRB-Pie. or rather TRB-PI.

- Constant output voltage by control to the adjusted setpoint value
- Activation and deactivation via optocoupler (VDE 700 - 730)
- Current transformer output (according to VDE 0551)
- Effective value display
- Regulating variable for analog controller (y-input)*
- as effective constant current transmitter*
- for different y-input signals

TYPE CODE

SRS 1 2 3 4 5 6

1	-	Standard version
	a	Only for contact control
2	6	Measuring range of display (A) 6
	15	Measuring range of display (A) 15
	25	Measuring range of display (A) 25
3	-	Nominal voltage 230 V (20 - 220 V)
	3	Nominal voltage 400 V (35 - 380 V)
	5	Nominal voltage 500 V (40 - 500 V)
4	K	Compact unit
	M	Modular device
	Me	Control panel for modular device
	Mke	Cassette part for modular device
5	-	Input optocoupler
	y	Input 4 - 20 mA y- signal
	xy	Input (0 - 1 V); 0 - 10 V; 0 - 20 mA; 4 - 20 mA
6	-	Standard version
	G	Constant current transmitter

Example:
Standard device, measuring range of display 6 A, nominal voltage 230 V, compact unit, with input optocoupler, without constant current transmitter.

SRS - 6 - K - -
1 2 3 4 5 6

TECHNICAL DATA

Controller	
Nominal voltage	230 V (400 V, 500 V)~
Nominal current max.	25 A / 15 A / 6 A
Setting range voltage	20 - 220 V~ (40 - 380 V~)*
Max. current load of heat conductor	0,2 s; 200 mA - 500 A*
Upstreaming fuses	2 X 80 mA
Current transformer output	25/1 A (6/1, 15/1); R _i ...1,5Ω
Input optocoupler	6 - 24 V, R _i 5kΩ; Disconnection according to VDE 0700
Auxiliary voltage	-21 V~, R _i = 5kΩ
Dimensions**	Euroboard 100 x 160 mm; 14 TE, 3 HE
Excess length of cooling element***	+ 93 mm
Multipoint connector	DIN 41612 Form F; H***
Cassette** (h x b x t in mm)	150 x 85 x 232
Plug**	D15*
Temperature range	0 - 55 °C (cassette)
Cassette **** (h x b x t in mm)	157 x 93 x 205
Input y- signal	4 - 20 mA; R _i ≤ 20Ω
Ex-i-y-signal	4 - 20 mA; R _i ≤ 20Ω EEx ia IIC Ex-90.C.2029

* depends on design
** only for SRS
*** only for SRS..S
**** only for SRS..K

TECHNICAL DESCRIPTION

Display

Depending on requirements the display device can, for the purpose of improved reading of the operating current, be delivered with measuring range end value 26A, 15 A or 6 A. Current transformer output always 0 - 1 A.

Switching input (Heating off)

The switching input via optocoupler is as standard designed for a voltage of 6 to 24 V~, alternatively for current input 1,5 to 20 mA

Fuses

The voltage controller SRS has two fuses with 80 mA for the internal supply voltage.

Current transformer output

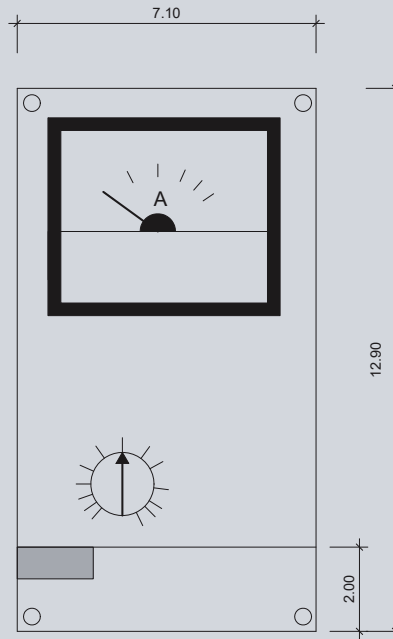
The current transformer output is designed as transmitter for the current input of the temperature controller TRB-P.

y- actuating variable input

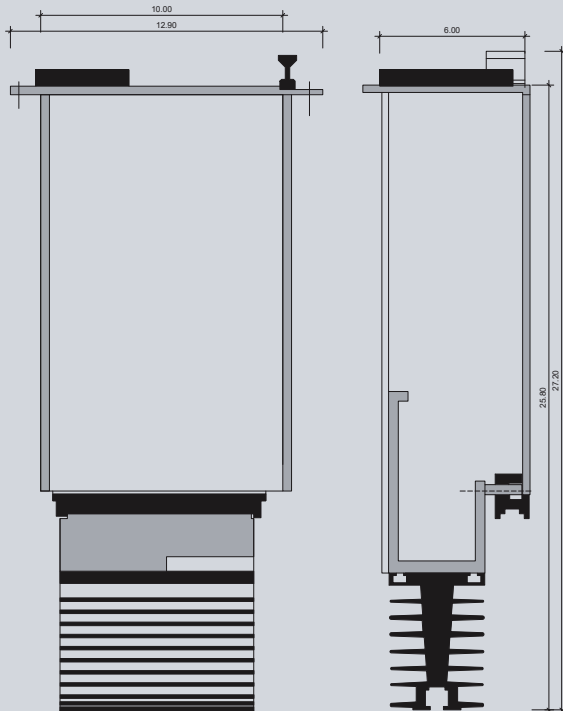
Devices, which are equipped with this buffer amplifier, serve as correcting element for analog controllers. The output voltage has to be limited to the desired max. value by use of the potentiometer with voltage scale (serves as overload protection or for the limitation of the overshoots during the adjustment).

* other measuring ranges on request

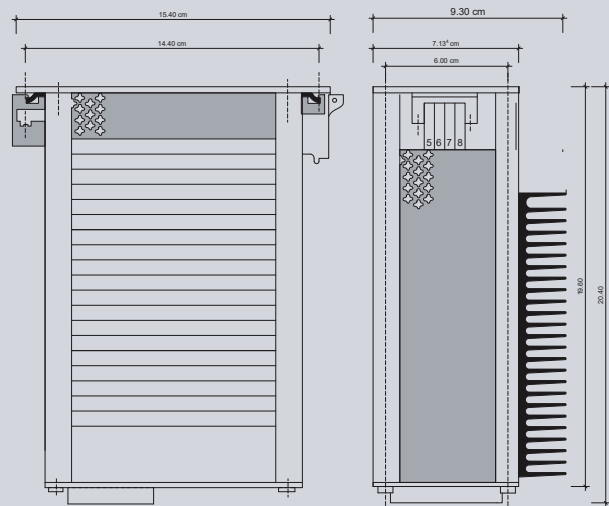
DIMENSIONS CONTROL PANEL SRS ... S



DIMENSIONS SRS ... S



DIMENSIONS SRS ... K - COMPACT UNIT



SRS .. K

Please take further information from the operating manual.
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