

## Controller ST 49

### Application

The micro-processed **PSG Controller ST 49** serves for temperature control of the gas sampling probes **PSG Basic Probe** and **PSG Plus Probe** as well as for the **PSG Basic Heated Sampling Tube** and the heated sample lines **PSG Extruded**, **PSG Plus Extruded**, **PSG Basic Flex** and **PSG Plus Extruded Hybrid**. Also, for heating sleeves and heated wall ducts the controller is applicable.

### Technology

The **PSG Controller ST 49** is a PID-controller that will be parameterized in different levels for the individual needs of the respective devices. The controller is available for 115VAC, 230VAC and 400V 3ph. The solid-state relay is mounted on a heat sink and has 25A switching capacity for 115/230VAC and 50A for 400V 3ph. Controller and relay are suitable for DIN rail or wall mounting.

### Functions

Beside resistance sensors and semiconductor thermocouples the multi-sensor input of the **PSG Controller ST 49** can equally process 0...10V and/or 4...20mA. The PID and/or thermostat control can be activated by parameter setting. Different outputs are available, such as two relay contacts, a voltage output for the solid-state relay and an analogue output. A temperature limiter function with alarm message is also available. Red LEDs indicate the status of the output relays. The set-points and parameters determining the process are adjusted by a 4-field foil keyboard.



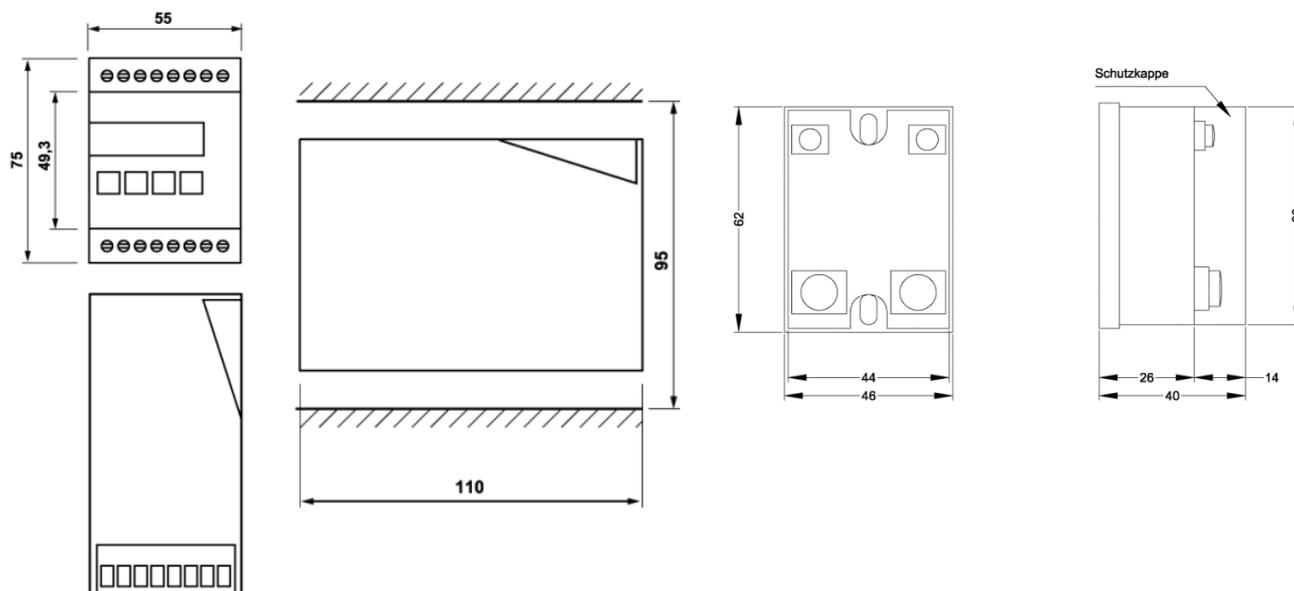
- ✓ Parameterizable PID temperature controller with solid-state relay
- ✓ Pre-parameterized for AGT-PSG heated sample lines
- ✓ In various voltages 115VAC, 230VAC or 400V available
- ✓ Temperature-limiter function with alarm message and self-locking
- ✓ 3 LEDs for status display of the 3 outputs
- ✓ Multisensor-input
- ✓ DIN rail or wall mounting

## Technical Data

Controller ST49				
Part no.		50078850	50078851	50078810
Execution		Temperature controller		
Ambient temperature	°C	0...+55°C		
Design				
Dimensions	mm	75 x 55 x 110		
Weight	g	360		
Mounting		DIN rail EN 60715 TH35 or wall mounting		
Electrical data				
Temperature sensors		Pt100-2, Pt100-3, Pt1000-2, Pt1000-3, Type J, Type K, PTC		
Outputs		K1 (NO contact), K2 (NO contact), S3 voltage for SSR control		
Power supply	V	230VAC 50/60 Hz	115VAC 50/60Hz	230V/400V 3Ph
Housing / protection class		IP00 / II		
Number of contacts		2 NO contacts 8(1,5) A 250V~		
Max. continuous current	A	25	25	50
Display		3-digit LED-display and 3 LEDs		
Electr. connection		2 x 8-pole screw terminals max. 2,5mm <sup>2</sup>		

## Dimensions

### Controller



Dimensions in mm