ANKERSMID Temperature controller

ATC 510/520 for wall-mounting



* Pictures may vary

Application

The ATC 510/520 is a modern microprocessor-based (PID) control device featuring easy handling and a digital display. The clear design of the operator control level facilitates fast and reliable adjustment.
The types ATC 510 and ATC 520 are plug-in devices, which are equipped with a grounding-type plug and a multi-pole plug for the consumer unit, can be put into operation immediately.

Description

The electronic temperature controller is mounted in a wall-mounting housing. The temperature sensor input is developed for multiple sensor inputs (standard PT100).
The desired operating temperature can be set by using the respective control keys.
The actual value is indicated via 4-digit display and the controller function via LED.

- **In wall-mounting enclosure**
- **Relay contact 10A/20A switching capacity**
- **4-digit LCD indication**
- **Plug-in device**
- **7-pin/5-pin plug**
- **Quick and easy to operate**

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ANKERSMID Temperature controller

ATC 510/520 for wall-mounting

Technical data

Version	ATC 510	ATC 520
Temperature sensor input	PT100 (standard) Pt500, Pt1000, Ni100, PTC1K, NTC10K (B 3435K) thermo-couple type J, K, S, R	
Switching capacity	Nominal 2300W (10A)	Nominal 4600W (20A)
Functions	PID-controller	
Power supply	115/230VAC	
Protection	time-delay fuse 10A (slow)	time-delay fuse 20A (slow)
Housing version	Wall-mounting housing	
International protection type	IP 54	
Housing material	Polycarbonate/ABS	
Dimensions in mm	151 x 125 x 90 (w x h x d)	
Consumer unit & sensor connection	7-pin socket (for heated line) incl. 2m power cable with open leads	5-pin socket (for heated line) incl. 2m power cable with open leads
Indications	LCD-display with 4-digit temperature display in °C (normal operation) as well as display of parameters and entry values during operator mode.	

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ANKERSMID Temperature controller

ATC 506/508 for wall-mounting



* Picture may vary

Application

The ATC 506/508 is a modern microprocessor-based (PID) control device. The innovative design facilitates an easy operation.
The plug-in device, which is equipped with a grounding-type plug and a multi-pole plug for the consumer unit, can be put into operation immediately.

Description

The electronic temperature controller TC 506/508 is especially designed for direct conjunction with heated lines series AHLE but also compatible to any other heated sample line with 7-pin multi-pole socket. The internal electronic is suitable for multiple sensor inputs (factory setting PT100).
The desired operating temperature is pre-programmed (factory setting +180°C) but can be adjusted via software to any other set-point (0-200°C).
The actual operation mode is indicated via multi-colour LED.

- **Compact design**
- **Relay contact 16A switching capacity**
- **Multi-colour LED indication**
- **Plug-in device**
- **Grounding-type plug for mains connection**
- **7-pin Multipole plug output**
- **Quick and easy to operate**

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Technical data

ATC 506/508 for wall-mounting

Version	ATC 506	ATC 508
Temperature sensor input	Pt100 (factory setting), Pt1000, thermo-couple type J, K	
Switching capacity	Nominal 1300W (6A) triac	Nominal 700W (6A) triac
Function	PID-control algorithm	
Accuracy class	1	
Power supply	230V/50Hz	115V/60Hz
Housing version	Wall-mounting housing	
International protection type	IP 65	
Housing material	Polycarbonate, Acryl	
Dimensions	Length: 150mm, diameter: 30mm	
Consumer unit & sensor connection	7-pin multi-pole socket, incl. 1.5m power cable with grounding-type plug	
Multi-color status LED indication	Red = heating green = temperature reached red flashing = sensor error/sensor damage/sensor short circuit	

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ANKERSMID Temperature controller

ATC 600 for rail-mounting



* Picture may vary

Application

The ATC 600 two-step electronic temperature controller was specifically designed for the control of different heated components.

Description

The two-step electronic temperature controller is mounted in a rail mounting housing. The temperature sensor input is developed for a two-wire PT100 sensor and is equipped with a protection against short circuit and sensor breach.

The desired operating temperature can be set by using the respective control keys. Temperatures can be displayed in degrees Celsius or degrees Fahrenheit. The actual value is indicated via three-digit display and the controller function via LED.

- **In rail mounting enclosure**
- **Relay contact 10A switching capacity**
- **Three-digit LCD indication**
- **Indication selectable for °C or °F**
- **Protected parameter level**
- **Data storage in case of power failure**

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ANKERSMID Temperature controller

Technical data

ATC 600 for rail-mounting

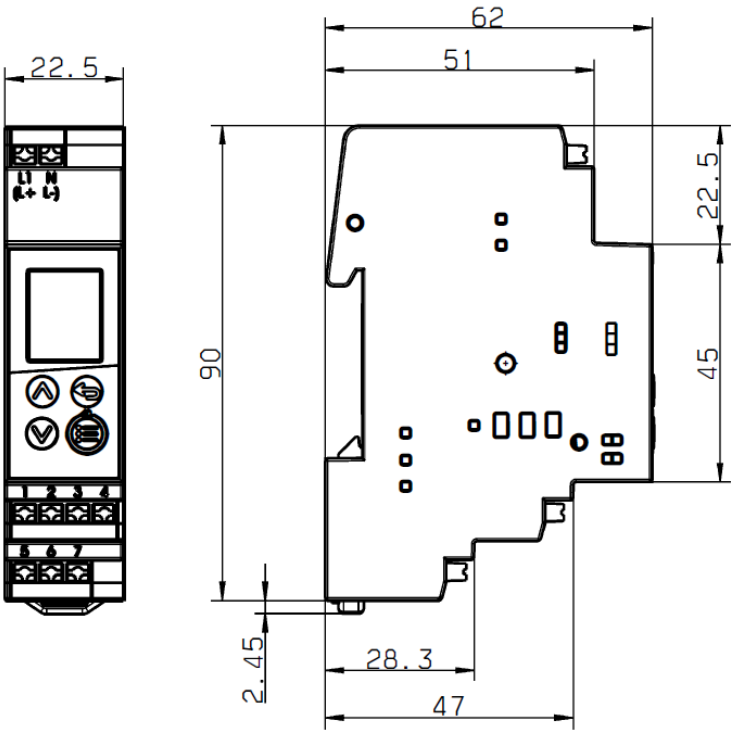
Version	ATC 600
Temperature control range	adjustable in range -200°C to +600°C, adjusted at works to 0°C to +200°C
Switching capacity	250VAC/10A resistive load with relay contact
Control mode	On-off controller
Temperature sensor input	PT100; 2-conductor with sensor breakage status
Ambient temperature	0°C to +55°C, for close-to-close mounting 0°C - 40°C
Storage temperature	-40°C to +70°C
Switching hysteresis	adjusted at works to 5°C
Accuracy of control	± 0,1% of final value
Electrical connection	terminals 2,5 mm2
Power supply/ Power consumption	230V +/-10%, 50/60Hz, 2VA
Housing version	Rail-mounting housing EN 50022
International protection type	IP 20 EN60529
Housing material	Polycarbonate
Dimensions in mm	90 (H) x 22,5 (W) x 62(D)
Weight	110gr.
Climatic resistance	≤ 75% rel. humidity average/year without occurrence of dew
Electrical security	DIN EN 61010 part1 excess voltage category III, contamination level 2
Electromagnetic compatibility	EN61326
Interference transmission	class B
Resistance to jamming	industrial requirement
Indications	actual value, 3-digit LCD, switching state relay via LED

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ATC 600 for rail-mounting

Dimensions



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ANKERSMID Temperature controller

ATC 900 ATEX for wall-mounting





* Picture may vary

Application

The ATC 900 ATEX is a modern Comprehensive solution for controlling and limiting the temperature in areas with potentially explosive gas or dust atmospheres according to zones 1/2 and 21/22, incl. power selector function.
Appropriate for ATEX heated lines and heated hoses.

Description

The electronic temperature controller-limiter unit is mounted in a wall-mounting housing.
The temperature sensor input is developed for 2x PT100.
The desired operating temperature can be set by using the respective control keys.
The actual value is indicated via three-digit display and the controller function via LED.

- **In wall-mounting enclosure**
- **Relay contact 25A switching capacity**
- **Approved to zones 1/2 (gas) and zone 21/22 (dust)**
- **Approved to explosion groups IIC Hydrogen and IIIC static dust**
- **Appropriate for temperature classes T1, T2, T3, T4, T5, T6**
- **Approval / certified to latest standards**
- **Complete documentation**

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ANKERSMID Temperature controller

Technical data

ATC 900 ATEX for wall-mounting

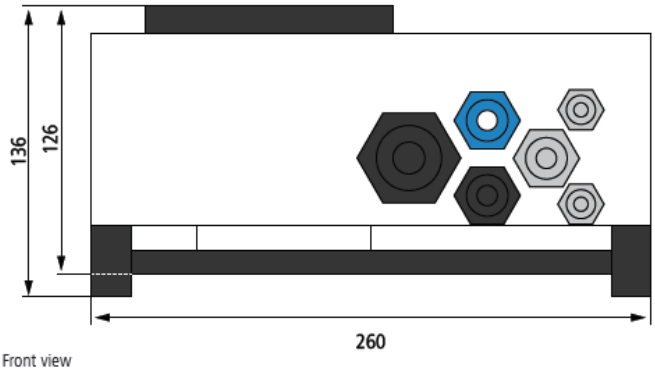
Version	ATC 900 ATEX
Temperature sensor input	PT100 DIN resistance thermometer
Switching capacity	Electronic solid-state relay with 25 A nominal current
Measuring circuit: intrinsically safe	[Ex ib] IIC Uo=6,3 V; Io=22 mA; Po=35 mW max. outer capacitance 1,5 µF max. outer inductance 10 mH [Ex ib] IIB Uo = 6,3 V, Io = 22 mA; Po=35 mW max. outer capacitance 8,2 µF max. outer inductance 10 mH
Ex-marking	Ⓔx II 2 G Ex e ib [ib Gb] mb IIC T4 Gb Ⓔx II 2 D Ex tb IIIC IP6X T90°C Db
Power supply	230VAC (-15% to +10%); 50-60Hz
External fuse	25 A automatic cut out, Type A, B, C (Siemens), or Z, B, C (ABB)
Measuring range	0 … 450°C
Power input	≤ 11 VA (without load)
Housing version	Wall-mounting housing
International protection type	IP 64 according to DIN EN 60529
Housing material	Aluminum
Dimensions in mm	260 x 160 x 135 (w x h x d)
Weight	6 Kg
Ambient temperature	-20 °C … +40 °C
Profile connection clamps	Mains input 0,5..6 mm² (≤ 4 mm² with ferrules) Load output 0,5..6 mm² (≤ 4 mm² with ferrules) Sensors 0,2..4 mm² (≤ 2,5 mm² with ferrules) Reset/signal. 0,2..4 mm² (≤ 2,5 mm² with ferrules)
Excess temperature protection	Integrated temperature switch (cut-off temperature approx. 90 °C)

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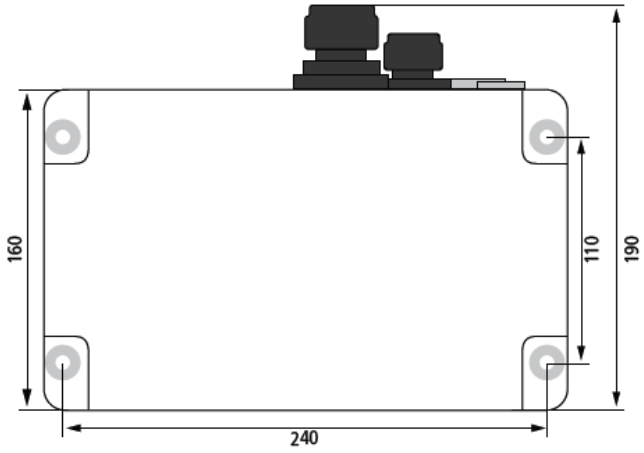
ANKERSMID Temperature controller

ATC 900 ATEX for wall-mounting

Dimensions



Front view



Back view and drilling template

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