



Temperature Controller

Panasonic Electric Works Corporation of America offers a broad line of highly flexible controllers for use as temperature controllers with PID (built-in auto-tuning function included), analog signal conditioners with scaling and panel meters with a very bright and easy to read display. The KT line of controllers is well suited for a wide variety of machine and process control applications. Each controller offers a wide selection of inputs and outputs.

Key Features

- Slim Size (22.5 x 75 x 100mm)
 - RS485 ASCII/Modbus Communications Available
 - Supply Voltage - 24V AC/DC or 100 to 240V AC
 - CE, UL/CSA Approval
 - Common Applications - Constant temperature bath, scrubber, shrink wrapping, oven, warm and cold storage units
 - Multi-Input - Versatile thermocouple, RTD, DC Current, DC Voltage
 - Control Modes - PID, on/off, Anti-Reset-Windup (ARW)
 - Control Outputs - Relay, non-contact voltage output (for SSR drive, DC current output)
 - Simple & Accurate - +/- 0.2% span
 - Alarm Output - 9 different operation modes
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Model Name	Sensor Input	Control Output	Heating/ cooling/ Control	Heater Burnout Alarm	Pattern Function	Communications	Signal Conditioner	Relay Alarm Outputs
Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼
AKT4111100	Multiple	RELAY			No		No	1
AKT41111001	Multiple	RELAY			No	RS485	No	1
AKT4111101	Multiple	RELAY			No	RS485	No	1
AKT41111011	Multiple	RELAY		5A Heater burnout Alarm	No	RS485	No	1
AKT4111102	Multiple	RELAY			No		No	1
AKT41111021	Multiple	RELAY		10A Heater burn	No	RS485	No	1
AKT4111103	Multiple	RELAY			No		No	1
AKT41111031	Multiple	RELAY		20A Heater burn	No	RS485	No	1
AKT4111104	Multiple	RELAY		50A Heater Burn	No		No	1
AKT41111041	Multiple	RELAY		50A Heater Burn	No	RS485	No	1
AKT4111140	Multiple	RELAY	H/C Relay		No		No	1
AKT41111401	Multiple	RELAY	SSR Output		No	RS485	No	1
AKT4111200	Multiple	RELAY			No	RS485	No	2
AKT41112001	Multiple	RELAY			No	RS485	No	2
AKT4111201	Multiple	RELAY		5A Heater burn	No		No	2
AKT41112011	Multiple	RELAY		5A Heater burn	No	RS485	No	2
AKT4111202	Multiple	RELAY		10A Heater Burn	No	RS485	No	2
AKT41112021	Multiple	RELAY		10A Heater burn	No	RS485	No	2
AKT4111203	Multiple	RELAY			No		No	2
AKT41112031	Multiple	RELAY		20A Heater burn	No	RS485	No	2
AKT4111204	Multiple	RELAY			No		No	2
AKT41112041	Multiple	RELAY		50A Heater burn	No	RS485	No	2
AKT4112100	Multiple	12VDC (SSR Output)			No		No	1
AKT41121001	Multiple	12VDC (SSR Output)			No	RS485	No	1
AKT4112101	Multiple	12VDC (SSR Output)			No		No	1
AKT41121011	Multiple	12VDC (SSR Output)		5A Heater burn	No	RS485	No	1
AKT4112102	Multiple	12VDC (SSR Output)			No		No	1
AKT41121021	Multiple	12VDC (SSR Output)		10A Heater burn	No		No	1
AKT4112103	Multiple	12VDC (SSR Output)			No		No	1



KT4

Product Types

Temperature Controller KT4

Small sized standard type

- 1/16 DIN size temperature controller
- Size 48 x 48 x 95mm (WxHxD)
- Panel-mounted type
- IP66 waterproof (frontside if panel mounted)
- 2nd optional alarm output
- Heating and cooling control with 2nd optional control output (non-contact voltage output)



Ordering code

A K T 4 1 1 1 1 0 0 1

Power supply
1=100 to 240V AC
2=24V AC/DC

Sensor input
1=multi-input

In stock:
AKT4111100
AKT4111200
AKT4112100
AKT4112140
AKT4113100
AKT4211100
AKT4211140
AKT4212100
AKT4212140
AKT41111001
AKT42111001
other types on demand

Control output
1=relay
2=non contact voltage
3=DC current

Alarm output
1=alarm 1 relay
2=alarm1 and alarm2
 relay

Communication function
blank=not available
1=RS485

Heater burnout alarm
0=not available
1=5A
2=10A
3=20A
4=50A

Heating/Cooling control output
0=no control output 2
4=SSR output 0.3A 250V AC