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## 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

- 48 x 24 x 98.5mm
  - 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	Pattern Function	Communications	Signal Conditioner	Relay Alarm Outputs	Open Collector Outputs
Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼	Sort ▲ ▼
AKT21110101	Multiple	Relay Control Output	Heating/ Cooling	Yes	RS485	No		
AKT21111001	Multiple	Relay Control Output		Yes	RS485	No	1	
AKT21111110	Multiple	Relay Control Output	Heating/ Cooling	Yes		No		
AKT2111200	Multiple	Relay Control Output		Yes		No	1	2
AKT21120101	Multiple	Non-Contact Voltage Control Output	Heating/ Cooling	Yes	RS485	No		
AKT21121001	Multiple	Non-Contact Voltage Control Output		Yes	RS485	No	1	
AKT21121110	Multiple	Non-Contact Voltage Control Output	Heating/ Cooling	Yes		No		2
AKT2112200	Multiple	Non-Contact Voltage Control Output		Yes		No	1	2
AKT21130101	Multiple	Current Control Output	Heating/ Cooling	Yes	RS485	No		
AKT21131001	Multiple	Current Control Output		Yes	RS485	No	1	
AKT21131110	Multiple	Current Control Output	Heating/ Cooling	Yes		No		2
AKT2113200	Multiple	Current Control Output		Yes		No	1	2
AKT22110101	Multiple	Relay Control Output	Heating/ Cooling	Yes	RS485	No		
AKT22111001	Multiple	Relay Control Output		Yes	RS485	No	1	
AKT22111110	Multiple	Relay Control Output	Heating/ Cooling	Yes		No		2
AKT2211200	Multiple	Relay Control Output		Yes		No	1	2
AKT22120101	Multiple	Non-Contact Voltage Control Output	Heating/ Cooling	Yes	RS485	No		
AKT22121001	Multiple	Non-Contact Voltage Control Output		Yes	RS485	No	1	
AKT22121110	Multiple	Non-Contact Voltage Control Output	Heating/ Cooling	Yes		No		2
AKT2212200	Multiple	Non-Contact Voltage Control Output		Yes		No	1	2

# KT2

## Product Types

### Temperature Controller KT2

*Tiny size – pattern control*

- 1/32 DIN size temperature controller
- Size 48 x 24 x 98.5mm (WxHxD)
- 9-step pattern control (ramp function)
- Panel-mounted type
- IP66 waterproof (front side if panel mounted)
- 2 set values possible (externally selectable)
- 2nd optional alarm output
- Heating and cooling control with 2nd optional control output (relay)
- Analogue value converter function



### Ordering code

**A K T 2 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:**  
AKT2111200  
AKT2112200  
AKT2113200  
AKT2211200  
AKT2212200  
AKT21111001  
AKT22120101  
AKT22121001  
other types on demand

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

**Alarm output**  
0=no alarm output  
1=1 alarm output\*  
2=2 alarm outputs, 1 relay,  
1 open collector output

**RS485 interface**  
blank=not available  
1=available

**Heater burnout alarm**  
0=not available

**Heating/Cooling control output**  
0=no control output 2  
1=relay 3A 250V AC

\* Type depends on other options