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

- Extremely Small Size (48 x 48 x 62mm) with High Performance
- 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
- NEW! KT4H Feature Comparison
- NEW! KT4H Monitor Software

KT4H Models

You may sort models by clicking the arrows in the appropriate column. If you are searching for a particular model but can't find it, give our model search utility a try. All downloads have moved to our separate downloads center.

Click one of the links below to view all related models. Models will appear below the links.

- **Temperature Controllers**
- **Accessories**

Currently viewing: KT4H Temperature Controllers

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 ▲ ▼
AKT4H111100	Multiple	Relay contact output			No		No	1
AKT4H1111001	Multiple	Relay contact output			No	RS485	No	1
AKT4H1111002	Multiple	Relay contact output			No		No	1
AKT4H111103	Multiple	Relay contact output		20A Single Phase Heater Burnout Alarm	No		No	1
AKT4H1111031	Multiple	Relay contact output		20A Single Phase Heater Burnout Alarm	No	RS485	No	1
AKT4H1111032	Multiple	Relay contact output		20A Single Phase Heater Burnout Alarm, Contact Input	No		No	1
AKT4H111104	Multiple	Relay contact output		50A Single Phase Heater Burnout Alarm	No		No	1
AKT4H1111041	Multiple	Relay contact output		50A Single Phase Heater Burnout Alarm	No	RS485	No	1
AKT4H1111042	Multiple	Relay contact output		50A Single Phase Heater Burnout Alarm, Contact Input	No		No	1
AKT4H111105	Multiple	Relay contact output		20A Three Phase Heater Burnout Alarm	No		No	1
AKT4H1111051	Multiple	Relay contact output		20A Three Phase Heater Burnout Alarm	No	RS485	No	1
AKT4H1111052	Multiple	Relay contact output		20A Three Phase Heater Burnout Alarm, Contact Input	No		No	1
AKT4H111106	Multiple	Relay contact output		50A Three Phase Heater Burnout Alarm	No		No	1
AKT4H1111061	Multiple	Relay contact output		50A Three Phase Heater Burnout Alarm	No	RS485	No	1

AKT4H1121042	Multiple	Non Contact Voltage output (for SSR Drive		50A Single Phase Heater Burnout Alarm, Contact Input	No		No	1
AKT4H112105	Multiple	Non Contact Voltage output (for SSR Drive		20A Three Phase Heater Burnout Alarm	No		No	1
AKT4H1121051	Multiple	Non Contact Voltage output (for SSR Drive		20A Three Phase Heater Burnout Alarm	No	RS485	No	1
AKT4H1121052	Multiple	Non Contact Voltage output (for SSR Drive		20A Three Phase Heater Burnout Alarm, Contact Input	No		No	1
AKT4H112106	Multiple	Non Contact Voltage output (for SSR Drive		50A Three Phase Heater Burnout Alarm	No		No	1
AKT4H1121061	Multiple	Non Contact Voltage output (for SSR Drive		50A Three Phase Heater Burnout Alarm,	No	RS485	No	1
AKT4H1121062	Multiple	Non Contact Voltage output (for SSR Drive		50A Three Phase Heater Burnout Alarm, Contact Input	No		No	1
AKT4H112110	Multiple	Non Contact Voltage output (for SSR Drive	Heating/ Cooling relay contact control		No		No	1
AKT4H1121101	Multiple	Non Contact Voltage output (for SSR Drive	Heating/ Cooling relay contact control		No	RS485	No	1
AKT4H1121102	Multiple	Non Contact Voltage output (for SSR Drive	Heating/ Cooling relay contact control, Contact Input		No		No	1
AKT4H112120	Multiple	Non Contact Voltage output (for SSR Drive	Heating/ Cooling Non-contact voltage (for SSR Drive) control		No		No	1
AKT4H1121201	Multiple	Non Contact Voltage output (for SSR Drive	Heating/ Cooling Non-contact voltage (for SSR Drive) control		No	RS485	No	1
AKT4H1121202	Multiple	Non Contact Voltage output (for SSR Drive	Heating/ Cooling Non-contact voltage (for SSR Drive) control, Contact Input		No		No	1

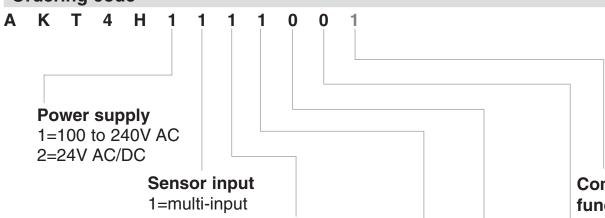# KT4H

Product Types

Temperature Controller KT4H

Space saving, high performance

- 1/16 DIN size temperature controller
- Size 48 x 48 x 56mm (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)
- 11-segment display with 3 colours for PV
- 4 set values (externally selectable)
- Tool Port as standard
- MEWTOCOL communication
- Heater burnout alarm supports 3-phase heaters

Ordering code

A K T 4 H 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:
AKT4H111100
AKT4H112100
AKT4H113100
AKT4H211100
AKT4H212100
AKT4H213100
AKT4H1111001
AKT4H2111001
other types on demand

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

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

Heating/Cooling control output
0=no control output 2
1=relay
2=non-contact voltage

Heater burnout alarm
0=not available
3=20A single phase
4=50A single phase
5=20A three phase
6=50A three phase

Communication function
blank=not available
   1=RS485
   2=contact input