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Ple	ease	read	the foll	owiı	ing safety considerations before use.
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«Please ob	oserve	all safe	ety conside	ration	ons for safe and proper product operation to avoid hazards.
≪ ∆ symbo	ol repre	esents	caution due	e to s	special circumstances in which hazards may occur.
Warn	ing Fa	ailure 1	to follow the	ese in	Instructions may result in serious injury or death.
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<u>∧</u> Warn	ling		- 1		
Fail-safe d	ievice n	nust b onomi	e installed v c loss. (e.g.	nucle	n using the unit with machinery that may cause serious injury lear power control, medical equipment, ships, vehicles,
Failure to fo	ollow th	is instr	uction may n	esult i	is, salely equipment, crime/disaster prevention devices, etc.) t in fire, personal injury, or economic loss.
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- X2. "S" represents SSR drive output support models which ŠSRP function (standard ON/OFF, cycle, phase) control are available. "C" represents selectable current and SSR drive output support models.
 X3. Select "R" or "C" type in case of using heating&cooling control and "N" type in case of using standard control.
 X4. Does not support in AC/DC voltage type model.
 X5. Does not support in TK4N.
 X6. The CT input model of TK4N is selectable only for standard model which has alarm output 1.
 X7. The heating&cooling model of TK4N-III is used as DI-2 input terminal.
 X9. 11Pin socket (PG-11, PS-11(N)) for TK4SP: sold separately.

Shaded descriptions are upgraded or added functions from the before TK Series.
The above specifications are subject to change and some models may be discontinued without notic
Be sure to follow cautions written in the instruction manual, user manual and the technical descriptions ed without notice. (catalog, homepage).

Specifications TK4SP TK4S TK4M TK4W TK4H TK4L TK4N eries AC voltage 100-240VAC~ 50/60Hz
 7-segment (PV: red, SV: green), other display part (green, yellow, red) LED method

 4.5×7.2mm
 7.0×14.0mm
 9.5×20.0mm
 8.5×17.0mm
 7.0×14.6mm
 11.0×22.0mm

 3.5×5.8mm
 5.0×10.0mm
 7.5×15.0mm
 6.0×12.0mm
 7.0×14.0mm
 Display method Character PV (W×H) SV (W×H)
 3.5×5.8mm
 5.0×10.0mm
 7.5×15.0mm
 6.0×12.0mm
 7.0×

 JPt 1000, DPt 1000, DPt 500, Cu 1000, Cu 500, Nikel 1200 (6 types)
 K, J, E, T, L, N, U, R, S, B, C, G, PLII (13 types)
 Voltage: 0.100m/DC=, 0.5VDC=, 1.5VDC=, 0.10VDC=: (4 types)

 -Current: 0.20mA, 4.20mA (2 types)
 -At room temperature (23°C ±5°C); (PV ±0.3% or ±1°C, select the higher one) ±1-digit
 In case of TK45P Series, ±1°C will be added.

 -At momerature 73°C ±5°C ± 5°C); 43% or ±2°C, select the higher one) ±1-digit
 In case of TK45P Series, ±1°C will be added.
 size nput Thermcouple ype Analog RTD Thermcouple Display At room temperature (23°C ±5°C): ±0.3% F.S. ±1-digit Out of room temperature ranges: ±0.5% F.S. ±1-digit 45% F.S. ±1-digit accuracy Analog •TK4N ±5% F.S. ±1-digit OUT1, OUT2: 250VAC~ 3A, 30VDC- 3A, 1a CT input Relay SSR Current Control Max. 11VDC= ±2V 20mA DC4-20mA or DC0-20mA selectable (resistance load: max. 500Ω) AL1, AL2: 250VAC~ 3A 1a %TK4N AL2: 250VAC~ 0.5A, 1a (max. 125VA), TK4SP has only AL1 utput larm output Relay Option Transmi Transmission DC4-20mA (resistance load: max. 500Ω, output accuracy: ±0.3% F.S.) Communication RS485 communication output (Modbus RTU) output

 10-50.04 (primary heater current reading range)
 %CT ratio is 1/1000 (except TK4SP)

 -Contact input: ON - max. 2kΩ, OFF - min. 90kΩ

 Non-contact input: ON - residual votage max. 1.0VDC=, OFF - leakage current max. 0.1mA

 Outflow current: approx. 0.5mA per input

 %TK4S/M: 1 (TK4S-D□□: 2, TK4SP: none), TK4N/H/W/L: 2 (except TK4SP)

 nput Digital input Control Heating, Cooling nethod Heating&Cooling ON/OFF. P. PI. PD. PID control mode ·RTD/Thermcouples: 1 to 100°C/°F (0.1 to 100.0°C/°F) variable ·Analog: 1 to 100-digit lysteresis oportional band (P) 0.1 to 999.9°C/°F (0.1 to 999.9%) ntegral time (I) 9 sec Derivative time (D) 0 to 9999 sec Relay output, SSR drive output: 0.1 to 120.0 sec Current output+SSR drive output: 1.0 to 120.0 sec Control period (T) Anual reset value 0.0 to 100.0% ampling period 2,000VAC 50/60Hz for 1 min (between power source terminal and input terminal) electric strength 2. Votvors over a vot run (100 memory power source terminal and input (effinitial)
0.75mm amplitude at frequency of 5 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours
-OUT1/OUT2: min. 5,000,000 operations,
-AL1/AL2: min. 20,000,000 operations,
OUT1/OUT2, AL1/AL2: min. 100,000 operations
Over 100MΩ (at 500VDC megger)
Square shaped noise by noise simulator (pulse width 1µs) ±2kV R-phase, S-phase
Aprox. 10 years (non-outfile semiconductor memory time) /ibration Relay Mechanical •TK4S fe cycle Electrical nsulation resistance loise immunity
 Memory retention
 Approx. 10 years (non-volatile semiconductor memory type)

 Environ memory
 Ambient temp.
 -10 to 50°C, storage: -20 to 60°C

 Ambient humi.
 35 to 85%RH, storage: 35 to 85%RH
 Contact Inp Do to corrent, storage: 30 to 85%RH IP65 (front panel) XTK4SP: IP50 (front panel) Double insulation or reinforced insulation (mark: @, dielectric strength between the measuring input part and the power part : 2kV) CE : State Current rotection nsulation type Approval Approx. 140g Approx. 130g Approx. 150g Approx. 210g Approx. 211g (approx. 70g) (approx. 85g) (approx. 105g) (approx. 141g) (approx. 141g Approx. 294g (approx. 198g) Veight^{×2} (1: @At room temperature range (23°C±5°C) • Thermocouple K, J, T, N, E type, below -100°C / Thermocouple L, U, PLII, Cu50Ω, DPt 50Ω: Thermocouple B type, below 400°C; (PV $\pm 0.3\%$ or $\pm 3^\circ$ C; select the higher one) ± 1 -digit Thermocouple B type, below 400°C; (PV $\pm 0.3\%$ or $\pm 3^\circ$ C; select the higher one) ± 1 -digit Out of room temperature range
•RTD Cu50Ω, DPt50Ω: (PV ±0.5% or ±3°C, select the higher one) ±1-digit RTD Cu50Ω, DPt50Ω: (PV ±0.5% or ±3°C, select the higher one) ±1-digit
 Thermocouple R, S, B, C, G type: (PV ±0.5% or ±5°C, select the higher one) ±1-digit
 Others, below -100°C: within ±5°C
 In case of TK4SP Series, ±1°C will be added to the degree standard.
 The weight includes packaging. The weight in parenthesis is for unit only.
 invironment resistance is rated at no freezing or condensation. Unit Description * The input selection switch (TC, RTD/mV, V, mA) disappeared. Select input type [r _ - +] in parameter 3 group. 8888 8888. -2 12 9 10 11
1. Measured value (PV) display part: RUN mode: It displays the parameter.
2. Set value (SV) display part: RUN mode: It displays the parameter.
2. Set value (SV) display part: RUN mode: It displays the set value (SV).
Setting mode: It display set (Link)
Setting mode: It displays the set value (SV).
Setting mode: It displays the value (SV).
Method (SV).
Setting mode: It displays the value (SV).
Setting mode: It displays the value (SV).
Setting mode: It displays the value (SV).
Setting value (SV).
Setting value (SV).
Setting value.
Seting value.
<li 9 10 2. Digital input key: When pressing S + (a) keys for 3 sec. at the same time, it operates the function (RUN/STOP, alarm clear, auto tuning) set at digital input key (b) + (b) parameter 5 group.
3. PC loader port. It is the PC loader port for senial communication to set parameter with DAQMaster installed in PC. Use this for connecting SCM-US (USB/Serial converter, sold separately). Installation TK4N (48 × 24mm) Series •TK4S/SP (48 × 48mm) Series Other Series 000000 000000 (+) driver ※Insert the unit into a panel fasten the bolt with a (+) driver *Insert the unit into a panel, fasten the bracket by pushing with tools with a (-) driver -) drive





PRSS 0001 50 Parameter 1 group [PB- 1] Par 50-2 0000 AL IL 1550 RL 3.L 1550 •Parameter 2 group [PRr 2] Par H C Ε- Parameter 3 group [PBr 3] Par Un L -H-•Parameter 4 group [PR- 4] Par AL A L R Lo R Lo 1.5 R •Parameter 5 group [PR-5] Par di If deviation between PV and SV as high-limit is higher than set di value of deviation temperature di the alarm output will be ON. I E.ñ Shaded parameters are for the heating&cooling model as low-limit is higher than set User Manual value of deviation temperature For the detail information and instructions, please refer to user manual and user manual for communication the alarm output will be ON. nd be sure to follow cautions written in the technical descriptions (catalog, homepage). Visit our homepage (www.autonics.com) to download manuals. If deviation between PV and SV as high/low-limit is higher Comprehensive Device Management Program[DAQMaster] perature, the alarm output DAQMaster is a comprehensive device management software for setting parameters and monitoring proces If deviation between PV and Item SV as high/low-limit is lower Syste Opera Mem emperature, the alarm output Hard VGA Other If PV is higher than the absolut value, the output will be ON. Cautions during Use

Description

_____ PV 110℃

No alarm output

than set value of deviation

than set value of deviation

If PV is lower than the absoult

value, the output will be ON

It will be ON when it detects

It will be ON when it detects

It will be ON when CT detects

sensor disconnection

will be ON.

will be OFF.

loop break.

heater break.

Area Sensors Proximity Sensors Pressure Sensors Rotary Encoders

Factory Default

•SV setting group [5] Parameter Factory default

ameter	Factory default	Parameter	Factory default	Parameter	Factory default	Parameter	Factory default
- 5	rUn	AL LH	1550	AL 3.H	1550	5u-3	0000
- n	5u-0	RL 2.L	1550	5u-0	0000		
- R	0.0	RL 2.H	1550	5u-1	0000		<u> </u>
	1550	01.71	1550	C 7	0000	1	

ameter	Factory default	Parameter	Factory default	Parameter	Factory default	Parameter	Factory default
٦Ŀ	oFF	H-d	0000	HoSt	000	- 8กับ	000
- P	0 10.0	[-d	0000	C.H 9 5	002	r Añd	000
- P	0 10.0	db	0000	E.oSt	000	r.Unt	ñln
-1	0000	rESt	0 5 0.0	L-ñu	-10 0.0	/	/
-	0000	нн у 5	002	H-ñu	10 0.0		

	• • •	-					
ameter	Factory default	Parameter	Factory default	Parameter	Factory default	Parameter	Factory default
- E	YER.H	H-5[100.0	C 1	HERE	o I.S.r	Stnd
Ł	٥٢	d.Unt	0 ۲ 0	0c	н-С	o lã A	4-20
- 6	0 0.0 0	In-b	0000	c - ,	Pid	oUE2	EUrr
- 6	10.00	ñRu.F	000.1	L-nd	P,P	o 2.ñ A	4-20
οĿ	0.0	L-5u	- 200	RE.E	EUn I	H-F	0200 (Relay)
50	000.0	H-Su	1350	oUt I	EUrr	E-E	002.0 (SSR)

ameter	Factory default	Parameter	Factory default	Parameter	Factory default	Parameter	Factory default
- 1	duEE	A5.n	no	LЬЯ.E	0000	ЬPS	96
l.E	AL-A	n 0.5 R	0000	LЬR.Ь	002	Prty	nonE
49	001	7 a.5 R	0000	Ro.n I	Pu	SEP	2
ln	no	RL-3	oFF	F 5.L 1	- 200	rSYE	20
20	0000	AL 3.E	AL-A	F 5.H 1	1350	Coñy	E n.A
۶F	0000	R 3.H Y	001	Ro.ñ 2	Pu	\sim	
- 2]]du	R 3.n	no	F 5.L 2	- 200		
?.E	AL-A	R 3.on	0000	F 5.H 2	1350		
44	001	830E	пппп	Bdc 5	D I		

ameter	Factory default	Parameter	Factory default	Parameter	Factory default	Parameter	Factory default
	1	Pr.ñu	000.0	L [.5 u	oFF	L C.P S	oFF
٠Ľ	StoP	Er.ñu	000.0	L C.P I	oFF	Pyd	0000
- 1	oFF	St.ñu	000.0	L C.P 2	oFF		
- 2	oFF	SE.AL	Cont	L C.P 3	oFF		<u> </u>
າມ	AUto	USEr	Stad	L С.Р.Ч	oFF		

sses. DA	Quaster can be downloaded from our website at www.autonics.com.
	Minimum specifications
m	IBM PC compatible computer with Pentium III or above
ations	Windows 98/NT/XP/Vista/7/8/10
ory	256MB+
disk	1GB+ of available hard disk space
	Resolution: 1024×768 or higher
s	RS232C serial port (9-pin), USB port

 Follow instructions in 'Cautions during Use'. Otherwise, It may cause unexpected accidents.
 Check the polarity of the terminals before wiring the temperature sensor.
 For RTD temperature sensor, wire it as 3-wire type, using cables in same thickness and length.
 For thermocouple (CT) temperature sensor, use the designated compensation wire for extending wire.
 Keep away from high voltage lines or power lines to prevent inductive noise. In case installing power line and input signal line closely, use line filter or varistor at power line and shielded

wire at input signal line.

Do not use near the equipment which generates strong magnetic force or high frequency noise. Do not apply excessive power when connecting or disconnecting the connectors of the product. Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the

Bistant a potent which is extended
 Bistant a potent which is extended
 Do not use the unit for other purpose (e.g. voltmeter, ammeter), but temperature controller.
 When changing the input sensor, turn off the power first before changing.
 After changing the input sensor, modify the value of the corresponding parameter.
 24VAC, 2448VDC power supply should be insulated and limited voltage/current or Class 2, SELV power

 A TAGE, A TAGE POWER Supply Should be insulated and inflied voltage/current or Class 2, SELV power supply device.
 Do not overlapping communication line and power line.
 Use twisted pair wire for communication line and connect ferrite bead at each end of line to reduce the effect of external price. or external noise. Make a required space around the unit for radiation of heat. For accurate temperature measurement, warm up the unit over 20 min after turning on the power. Make sure that power supply voltage reaches to the rated voltage within 2 sec after supplying power. Do not wire to terminals which are not used. This unit may be used in the following environments. ©Indoors (in the environment condition rated in 'Specifications') ©Pollution degree 2

Major Products

- Photoelectric Sensors
 Fiber Optic Sensors
 Temperature Controller
 Temperature/Humidity SSRs/Power Controllers
- Door Side Sensors

 - Display Units Sensor Controllers
 - tor/Sockets

itching Mode Power Su ntrol Switches/Lamo/P

Terminal Blocks & Cables

- c/Logic Pane etwork Devi

Field Network Devices
 Laser Marking System (Fiber, CO₂, Nd: YAG)
 Laser Welding/Cutting System

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E-mail: sales@autonics.com

DRW170598AB



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Password input parameter

Parameter Factory default