**Autonics**

**TEMPERATURE CONTROLLER**

**TC4 Series**

**INSTRUCTION MANUAL**

Thank you for choosing your Autonics product. Please read the following safety considerations before use.

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### Safety Considerations

1. **Warning:** Failure to follow these instructions may result in serious injury or death.
2. **Caution:** Failure to follow these instructions may result in injury or product damage.

The symbols used in the product and instruction manual represent the following:

- **E**: Electrical hazard
- **H**: Health hazard
- **M**: Material hazard
- **P**: Property hazard
- **T**: Thermal hazard
- **W**: Water hazard

**Note:** The failure to follow these instructions may result in electric shock or fire.

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### Specifications

- **Model:** TC4 Series
- **Input signal:** 3A 1a
- **Output:** AL1 OUT: 250VAC 1A 1a, AL2 OUT: 250VAC 1A 1a
- **Relay OUT:** 250VAC 1A 1a
- **Source:** 100-240VAC
- **Load:** 50/60Hz, 24-48VDC
- **Temperature controller:** TC4H, TC4W, TC4L Series
- **TC4S Series:** DIN W96
- **SSR module:** SSRP function is selectable one of standard ON/OFF control, cycle control, phase control by utilizing SSRM function.
- **TC4V, TC4H, TC4W, TC4L Series:** DIN W96
- **Display method:** 3A 1a
- **Character size (W×H):** 48×96mm, 96×48mm
- **Unit Description:** It shows current temperature (PV) deviation to the set temperature (SV) in temperature mode.
- **Connections:** TC4 Series has two types of control output, Relay output, and SSR drive output. AC/DC power type does not have SSRP function.
- **Dimensions:** TC4S Series (48×96mm, 96×48mm)
- **SSR Drive Output Selection Function (SSRP function) [E5 ~ J]:**
  - A SSR module is used with SSRP functions. Select use of desired SSRP function. For cycle control, please control by utilizing SSRM function. For phase control, please control by utilizing SSRP function.
  - Select the standard SSRP function (E5 ~ J).
  - A SSR module is used with SSRP functions. Select use of desired SSRP function. For cycle control, please control by utilizing SSRM function. For phase control, please control by utilizing SSRP function.

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### Ordering Information

- **Control:** AL1/2: Min. 300,000 operations (250VAC 1A resistive load)
- **Display:** AL1/2: Min. 300,000 operations (250VAC 1A resistive load)
- **Input:** AL1/2: Min. 300,000 operations (250VAC 1A resistive load)
- **Ron:** AL1/2: Min. 300,000 operations (250VAC 1A resistive load)
- **Power supply:** AL1/2: Min. 300,000 operations (250VAC 1A resistive load)
- **Cable:** AL1/2: Min. 300,000 operations (250VAC 1A resistive load)

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### Installation

- **TC4SP (3A × 2a) Series**: DIN W96
- **TC4V (3A × 2a) Series**: DIN W96
- **Other Series**: DIN W96

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**Notes:**

1. In case of the AC voltage type, SSR drive output method (standard ON/OFF control, cycle control, phase control mode) is available to select.
2. It is suitable for TC4M, TC4W, TC4L Series.
3. For TC4H, TC4H is not available to select.
4. The above specifications are subject to change and some models may be discontinued without notice.
5. Be sure to follow the cautionary statements in the instruction manual and technical descriptions (labeling, home-page).

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**Additional Information:**

- **Mount the product on the panel:** Be sure to mount the product on the panel correctly.
- **Temperature:** Be sure to set the temperature correctly.
- **Input:** Be sure to set the input correctly.
- **Output:** Be sure to set the output correctly.

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