## E5ER Digital Controllers offer high speed, high precision, and multiple I/O and use a 5-digit, 3-row LCD display for high visual clarity.

- A short sampling period of 50 ms enables use in applications requiring high-speed response.
- PV, SP, and MV data is displayed simultaneously in a 3-row, negative LCD display with a backlight.
- Multipoint control, cascade control, and proportional control are possible with a single Controller.
- When using models with CompoWay/F communications, initial settings can be downloaded and settings can be masked using Support Software (CX-Thermo version 4.0 or higher).
- Equipped with calculation functions as a standard (e.g., square root calculation and broken-line approximation).
- DeviceNet Communications

Data setting and monitoring can be performed without any special programming.


For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Refer to Safety Precautions for All E5 $\square R$
Models.
Refer to E5AR/E5ER Operation for operating procedures.

## Model Number Structure

## Model Number Legend

## E5ER- $\square \frac{\square}{1} \frac{\square}{3} \frac{\square}{4} \frac{\square}{5} \frac{\square}{7} \frac{\square}{\mathbf{8}} \frac{\square}{9}-\square \square \square$

1. Constant values/Program

None: Constant values
2. Control method

Blank: Standard, or heating/cooling control
P: Position-proportional control
3. Output 1

R: DPST-NO relay outputs
Q: Pulse voltage and pulse voltage/current outputs
C: Current and current outputs
4. Output 2

Blank:None
R: Relay
Q: Pulse voltage and pulse voltage/current outputs
C: Current and current outputs

Note: When your order, specify the power supply voltage.
5. Auxiliary outputs

Blank:None
4: 4PST-NO relay outputs
T: 2 transistor outputs
6. Optional function 1

Blank:None
3: RS-485 communications
7. Optional function 2

Blank:None
D: 4 event inputs
8. Input 1

B: Universal-input and 2 event inputs
F: Universal-input and FB
W: Universal-input and universal-input
9. Input 2

Blank:None
W: Universal-input and universal-input
10.Communications Method

Blank:None
FLK: CompoWay/F
DRT: DeviceNet

Note: The above model number legend is intended as a functional description of models. Not all possible combinations of functions are available. Confirm model availability in Ordering Information when ordering.

The CX-Thermo Support Software (version 4.0 or higher) can be used to easily set parameters in conversational form.

[^0]
## Ordering Information

Digital Controllers When your order, specity the power supply voltage.

## Standard Controllers (100 to 240 VAC)

| Size | Control type | Control mode | Outputs (control/ transfer) | Optional functions |  |  | Model |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Auxiliary outputs (SUB) | Event inputs | Serial commu- nications |  |
| $\begin{aligned} & 48 \times 96 \\ & \mathrm{~mm} \end{aligned}$ | Basic control (1 loop) | Single-loop standard control Single-loop heating and cooling control | 2 points: Pulse voltage and Pulse voltage/current | 4 | 2 | No | E5ER-Q4B |
|  |  |  | 2 points: Current and Current |  |  |  | E5ER-C4B |
|  |  |  | 2 points: Pulse voltage and Pulse voltage/current |  |  | RS-485 | E5ER-Q43B-FLK |
|  |  |  | 2 points: Current and Current |  |  |  | E5ER-C43B-FLK |
|  |  |  | 2 points: Pulse voltage and Pulse voltage/current | 2 <br> (See note <br> 1.) | 6 |  | E5ER-QT3DB-FLK |
|  |  |  | 2 points: Current and Current |  |  |  | $\begin{aligned} & \text { E5EAR-CT3DB- } \\ & \text { FLK } \end{aligned}$ |
|  |  |  | 4 points: Pulse voltage and Pulse voltage/current and Current (2 points) | 4 | 2 |  | E5ER-QC43B-FLK |
|  | 2-Ioop control | 2-loop standard control Single-loop heating and cooling control Single-loop cascade control Single-loop control with remote SP Single-loop proportional control | 2 points: Pulse voltage and Pulse voltage/current | 2 (See note 1.) | 4 | RS-485 | E5ER-QT3DW-FLK |
|  |  |  | 2 points: Current and Current |  |  |  | E5ER-CT3DW-FLK |
|  | ```Position-pro- portional con- trol (1 loop)``` | Single-loop position-proportional control (See note 2.) | Relay output (1 open, 1 closed) | $\begin{array}{\|l} 2 \\ (\text { See note 1.) } \end{array}$ | 4 | No | E5ER-PRTDF |
|  |  |  | Relay output (1 open, 1 closed) and 1 current (transfer) output | 4 | No | RS-485 | E5ER-PRQ43F-FLK |

Note 1: The auxiliary outputs are transistor outputs.
2: Can be switched between close control and floating control.

## Standard Controllers (24 VAC/DC)

| Size | Control type | Control mode | Outputs (control/ transfer) | Optional functions |  |  | Model |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Auxiliary outputs (SUB) | Event inputs | Serial communications |  |
| $\begin{aligned} & 48 \times 96 \\ & \mathrm{~mm} \end{aligned}$ | Basic control (1 loop) | Single-loop standard control Single-loop heating and cooling control | 2 points: Pulse voltage and Pulse voltage/current | 4 | 2 | No | E5ER-Q4B |
|  |  |  | 2 points: Current and Current |  |  |  | E5ER-C4B |
|  |  |  | 4 points: Pulse voltage and Pulse voltage/current and Current (2 points) | 4 | 2 | RS-485 | E5ER-QC43B-FLK |
|  | 2-loop control | 2-loop standard control Single-loop heating and cooling control Single-loop cascade control Single-loop control with remote SP Single-loop proportional control | 2 points: Pulse voltage and Pulse voltage/current | 2 <br> (See note <br> 1.) | 4 | RS-485 | E5ER-QT3DW-FLK |
|  |  |  | 2 points: Current and Current |  |  |  | E5ER-CT3DW-FLK |
|  | ```Position-pro- portional con- trol (1 loop)``` | Single-loop position-proportional control (See note 2.) | Relay output (1 open, 1 closed) | $\left\lvert\, \begin{aligned} & 2 \\ & \text { (See note 1.) } \end{aligned}\right.$ | 4 | No | E5ER-PRTDF |
|  |  |  | Relay output (1 open, 1 closed) and 1 current (transfer) output | 4 | No | RS-485 | E5ER-PRQ43F-FLK |

Note 1: The auxiliary outputs are transistor outputs.
2: Can be switched between close control and floating control.

DeviceNet-compatible Controllers ( 100 to 240 VAC)

| Size | Control type | Control mode | Outputs (control/ transfer) | Optional functions |  |  | Model |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Auxiliary outputs (SUB) | Event inputs | DeviceNet communications |  |
| $\begin{aligned} & 48 \times 96 \\ & \mathrm{~mm} \end{aligned}$ | Basic control(1 loop) | Single-loop standard control Single-loop heating and cooling control | 2 points: <br> Pulse voltage <br> Pulse voltage/current | $\begin{aligned} & \hline 2 \text { (See } \\ & \text { note 1.) } \end{aligned}$ | 2 | Yes | E5ER-QTB-DRT |
|  |  |  | 2 points: Current and Current |  |  |  | E5ER-CTB-DRT |
|  | 2-loop control | 2-Ioop standard control <br> Single-loop heating and cooling control <br> Single-loop cascade control <br> Single-loop standard control with remote SP <br> Single-loop proportional control | 2 points: <br> Pulse voltage <br> Pulse voltage/current | $\begin{aligned} & \hline 2 \text { (See } \\ & \text { note 1.) } \end{aligned}$ | None | Yes | E5ER-QTW-DRT |
|  |  |  | 2 points: Current and Current |  |  |  | E5ER-CTW-DRT |
|  | Position-proportional control (1 loop) | Single-loop position-proportional control (See note 2.) | Relay output (1 open, 1 closed) | $\begin{aligned} & \hline 2 \text { (See } \\ & \text { note 1.) } \end{aligned}$ | None | Yes | E5ER-PRTF-DRT |

Note: 1. The auxiliary outputs are transistor outputs.
2. Can be switched between close control and floating control.

DeviceNet-compatible Controllers (24 VAC/DC)

| Size | Control type | Control mode | Outputs (control/ transfer) | Optional functions |  |  | Model |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Auxiliary outputs (SUB) | Event inputs | DeviceNet communications |  |
| $\begin{aligned} & 48 \times 96 \\ & \mathrm{~mm} \end{aligned}$ | Basic control (1 loop) | Single-loop standard control Single-loop heating and cooling control | 2 points: <br> Pulse voltage <br> Pulse voltage/current | $\begin{aligned} & \hline 2 \text { (See } \\ & \text { note 1.) } \end{aligned}$ | 2 | Yes | E5ER-QTB-DRT |
|  |  |  | 2 points: Current and Current |  |  |  | E5ER-CTB-DRT |
|  | 2-loop control | 2-loop standard control <br> Single-loop heating and cooling control <br> Single-loop cascade control <br> Single-loop standard control with remote SP <br> Single-loop proportional control | 2 points: <br> Pulse voltage <br> Pulse voltage/current | $\begin{aligned} & 2 \text { (See } \\ & \text { note 1.) } \end{aligned}$ | None | Yes | E5ER-QTW-DRT |
|  |  |  | 2 points: Current and Current |  |  |  | E5ER-CTW-DRT |
|  | Position-proportional control (1 loop) | Single-loop position-proportional control (See note 2.) | Relay output (1 open, 1 closed) | 2 (See note 1.) | None | Yes | E5ER-PRTF-DRT |

Note: 1. The auxiliary outputs are transistor outputs.
2. Can be switched between close control and floating control.

## Inspection Results

The Inspection Report can be ordered at the same time as the Digital Controller using the following model number.

Inspection Report (Sold Separately)

| Descriptions | Model |
| :--- | :--- |
| Inspection Report for E5ER | E5ER-K |

## Accessories (Order Separately)

## Terminal Cover (Sold Separately)

| Descriptions | Model |
| :---: | :--- |
| Terminal Cover for E5ER | E53-COV15 |

Rubber Packing

| Model |
| :--- |
| Y92S-P5 |

Note: The Rubber Packing is provided with the Digital Controller.

## Mounting Adapters

| Model |
| :--- |
| Y92H-9 |

Note: These Mounting Adapters are provided with the Digital Controller.

## Specifications

Ratings

| Item | Supply voltage (See note 1.) | 100 to 240 VAC, $50 / 60 \mathrm{~Hz}$ | 24 VAC, 50/60 Hz; 24 VDC |
| :---: | :---: | :---: | :---: |
| Operating voltage range |  | $85 \%$ to $110 \%$ of rated supply voltage |  |
| Power consumption |  | 17 VA max. (with maximum load) | 11 VA/7 W max. (with maximum load) |
| Sensor input (See note 2.) |  | Thermocouple: K, J, T, E, L, U, N, R, S, B, W Platinum resistance thermometer: Pt100 Current input: 4 to $20 \mathrm{mADC}, 0$ to 20 mA DC (including remote SP input) Voltage input: 1 to 5 VDC, 0 to 5 VDC, 0 to 10 VDC (including remote SP input) (Input impedance: $150 \Omega$ for current input, approx. $1 \mathrm{M} \Omega$ for voltage input) |  |
| Control output | Voltage (pulse) output | $12 \mathrm{VDC}, 40 \mathrm{~mA}$ max. with short-circuit protection circuit |  |
|  | Current output | 0 to $20 \mathrm{~mA} \mathrm{DC}, 4$ to 20 mA DC ; load: $500 \Omega$ max. (including transfer output) (Resolution: Approx. 54,000 for 0 to 20 mA DC ; Approx. 43,000 for 4 to 20 mADC ) |  |
|  | Relay output | Position-proportional control type (open, closed) N.O., 250 VAC, 1 A (including inrush current) |  |
| Auxiliary output |  | Relay Output <br> N.O., 250 VAC, 1 A (resistive load) <br> Transistor Output <br> Maximum load voltage: 30 VDC ; Maximum load current: 50 mA ; Residual voltage: 1.5 V max.; Leakage current: 0.4 mA max. |  |
| Potentiometer input |  | $100 \Omega$ to $2.5 \mathrm{k} \Omega$ |  |
| Event input | Contact | Input ON: $1 \mathrm{k} \Omega$ max.; OFF: $100 \mathrm{k} \Omega \mathrm{min}$. |  |
|  | No-contact | Input ON: Residual voltage of 1.5 V max.; OFF: Leakage current of 0.1 mA max . |  |
|  |  | Short-circuit: Approx. 4 mA |  |
| Remote SP input |  | Refer to the information on sensor input. |  |
| Transfer output |  | Refer to the information on control output. |  |
| Control method |  | 2-PID or ON/OFF control |  |
| Setting method |  | Digital setting using front panel keys or setting using serial communications |  |
| Indication method |  | 7 -segment digital display and single-lighting indicator Character Height <br> PV: 9.5 mm ; SV: 7.2 mm ; MV: 7.2 mm |  |
| Other functions |  | Depends on model. |  |
| Ambient operating temperature |  | -10 to $55^{\circ} \mathrm{C}$ (with no icing or condensation) <br> For 3 years of assured use: -10 to $50^{\circ} \mathrm{C}$ (with no icing or condensation) |  |
| Ambient operating humidity |  | 25\% to 85\% |  |
| Storage temperature |  | -25 to $65^{\circ} \mathrm{C}$ (with no icing or condensation) |  |

Note 1: The supply voltage (i.e., 100 to 240 VAC or 24 VAC/VDC) depends on the model. Be sure to specify the required type when ordering.
2: The Controller is equipped with multiple sensor input. Temperature input or analog input can be selected with the input type setting switch. There is basic insulation between power supply and input terminals, power supply and output terminals, and input and output terminals.
3: Do not use an inverter output as the power supply. (Refer to Safety Precautions for All E5 $\square$ R Models.)

## - Input Ranges

## Platinum Resistance Thermometer, Thermocouple, Current, or Voltage Input

| Input type | $\begin{aligned} & \text { Platit } \\ & \text { Resis } \\ & \text { Therm } \end{aligned}$ | num tance meter |  |  |  |  |  | Th | rmocou | ple |  |  |  |  |  | Cu | rent |  | oltag |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Name |  |  |  |  |  |  | T | E | L | U | N | R | S | B | $\begin{gathered} \text { W } \\ \binom{\mathrm{W} / R e}{5-26} \end{gathered}$ |  |  |  | [V] |  |
| 2300 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2300.0 |  |  |  |  |  |
| 1800 |  |  | 1300.0 |  |  |  |  |  |  |  | 1300.0 | 1700.0 | 1700.0 | 1800.0 |  |  |  |  |  |  |
| 1300 | 850.0 |  |  |  | 850.0 |  |  |  | 850.0 |  |  |  |  |  |  |  |  |  |  |  |
| 900 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Temper- |  |  | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ature |  |  |  | 500.0 |  |  |  | 600.0 |  |  |  |  |  |  |  | 20 to | 20 to | 5 to | 5 to |  |
| Range 400 |  |  | - |  |  | 400.0 | 400.0 |  |  | 400.0 |  |  |  |  |  | 4 | 0 | 1 | 0 | 0 |
| ( ${ }^{\circ} \mathrm{C}$ ) $\quad 200$ |  | 150.00 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (C) 200 |  |  | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100 0 |  |  | - |  |  |  |  |  |  |  |  |  |  | 100.0 |  |  |  |  |  |  |
|  |  |  | - |  |  |  |  | 0.0 |  |  |  | 0.0 | 0.0 |  | 0.0 |  |  |  |  |  |
| -100 -200 |  |  |  | -20.0 | -100.0 | -20.0 |  |  | -100.0 |  |  |  |  |  |  |  |  |  |  |  |
|  | -200.0 | -150.00 | -200.0 |  |  |  | -200.0 |  |  | -200.0 | -200.0 |  |  |  |  |  |  |  |  |  |
| Setting | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| $\begin{aligned} & \text { Minimum } \\ & \text { setting unit } \\ & \text { (SP and alarm) } \end{aligned}$ | $0.1^{\circ} \mathrm{C}$ | $0.01{ }^{\circ} \mathrm{C}$ | $0.1{ }^{\circ} \mathrm{C}$ |  |  |  |  |  |  |  |  |  |  |  |  | (Depends on scaling and number of decimal places.) |  |  |  |  |
| Input type setting switch | Set to TC.PT. $\square$ <br> ANALOG |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

The shaded area indicates the setting status at the time of purchase.

## Characteristics



Note: 1. K-, T-, or N-type thermocouple at $-100^{\circ} \mathrm{C}$ max.: $\pm 2^{\circ} \mathrm{C} \pm 1$ digit max. U- or L-type thermocouple: $\pm 2^{\circ} \mathrm{C} \pm 1$ digit max.
B-type thermocouple at $400^{\circ} \mathrm{C}$ max.: No accuracy specification. R- or S-type thermocouple at $200^{\circ} \mathrm{C}$ max.: $\pm 3^{\circ} \mathrm{C} \pm 1$ digit max.
W-type thermocouple: ( $\pm 0.3 \%$ of PV or $\pm 3^{\circ} \mathrm{C}$, whichever is greater) $\pm 1$ digit max.
2. U- or L-type thermocouple: $\pm 1^{\circ} \mathrm{C} \pm 1$ digit

R- or S-type thermocouple at $200^{\circ} \mathrm{C}$ max.: $\pm 1.5^{\circ} \mathrm{C} \pm 1$ digit
3. "EU" (Engineering Unit) represents the unit after scaling. If a temperature sensor is used it is either ${ }^{\circ} \mathrm{C}$ or ${ }^{\circ} \mathrm{F}$.
4. Conditions: Ambient temperature from -10 to 23 to $55^{\circ} \mathrm{C}$ and voltage of $-15 \%$ to $10 \%$ of rated voltage.
5. Industrial electromagnetic environment (EN/IEC 61326-1 Table 2)

## Communications Specifications

| Transmission path connection | Multiple points |
| :--- | :--- |
| Communications method | RS-485 (two-wire, half duplex) |
| Synchronization method | Start-stop synchronization |
| Baud rate | $9,600,19,200$, or $384,000 \mathrm{bps}$ |
| Transmission code | ASCI |
| Data bit length | 7 or 8 bits |
| Stop bit length | 1 or 2 bits |
| Error detection | Vertical parity (none, even, odd) <br> Block check character (BCC): CompoWay/F <br> CRC-16: Modbus |
| Flow control | None |
| Interface | RS-485 |
| Retry function | None |
| Communications buffer | 217 bytes |
| Communications response send wait time | 0 to 99 ms, Default: 20 ms |

## DeviceNet

| Item |  | Specifications |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Communications protocol |  | Conforms to DeviceNet |  |  |  |
| Communications functions | Remote I/O communications | - Master-slave connections (polling, bit-strobe, COS, or cyclic) <br> - Conform to DeviceNet specifications. |  |  |  |
|  | I/O allocations | - Can allocate any I/O data from the Configurator. <br> - Can allocate any data, such as parameters specific to the Devicenet, and the Digital Controller variable area. <br> - Up to 2 blocks for the IN Area, up to a total of 100 words. <br> - One block for the OUT Area, up to 100 words (first word is always allocated to Output Enable Bits). |  |  |  |
|  | Message communications | - Explicit message communications <br> - CompoWay/F communications commands can be sent (commands are sent in explicit message format). |  |  |  |
| Connection format |  | Combination of multidrop and T-branch connections (for trunk and drop lines) |  |  |  |
| Baud rate |  | DeviceNet: 500, 250, or 125 kbps , or automatic detection of master baud rate |  |  |  |
| Communications media |  | Special 5-wire cable (2 signal lines, 2 power lines, and 1 shield line) |  |  |  |
| Communications distance |  | Baud rate | Network length | Drop line length | Total drop line length |
|  |  | 500 kbps | 100 m max. (100 m max.) | 6 m max. | 39 m max. |
|  |  | 250 kbps | 250 m max. (100 m max.) | 6 m max. | 78 mmax . |
|  |  | 125 kbps | 500 m max. (100 m max.) | 6 m max. | 156 m max. |
|  |  | The values in parentheses apply when Thin Cables are used. |  |  |  |
| Supply voltage |  | DeviceNet power supply: 24 VDC |  |  |  |
| Allowable voltage range |  | DeviceNet power supply: 11 to 25 VDC |  |  |  |
| Current consumption |  | 50 mA max. (24 VDC) |  |  |  |
| Maximum number of nodes that can be connected |  | 64 (includes Configurator when used) |  |  |  |
| Maximum number of slaves that can be connected |  | 63 |  |  |  |
| Error control |  | CRC error detection |  |  |  |
| Power supply |  | Power supplied from DeviceNet communications connector. |  |  |  |

## Wiring Terminals

## E5ER Standard Controller Connections

## E5ER-Q4B



## E5ER-Q43B-FLK



E5ER-C4B


E5ER-C43B-FLK


## E5ER-QT3DB-FLK



## E5ER-CT3DB-FLK



E5ER-QC43B-FLK


## E5ER-QT3DW-FLK (2-loop Control)



E5ER-CT3DW-FLK (2-loop Control)


## E5ER-PRTDF



E5ER-PRQ43F-FLK


## E5ER DeviceNet-compatible Controller Connections

E5ER-QTB-DRT


E5ER-CTB-DRT


## E5ER-QTW-DRT (2-loop Control)



## E5ER-CTW-DRT (2-loop Control)



## E5ER-PRTF-DRT



## Nomenclature

E5ER


## Dimensions

Note: All units are in millimeters unless otherwise indicated.

## E5ER




- Recommended panel thickness is 1 to 8 mm .
- Group mounting is not possible. (Maintain the Group mounting is not possible. (Maintain the
- When two or more Controllers are mounted, make sure that the surrounding temperature does not exceed the allowable operating


## Accessories (Order Separately)

## Terminal Cover

E53-COV15 (for E5ER)


## Unit Label Sheet

Y92S-L1


## Rubber Packing

## Y92S-P5 (for DIN48 $\times 96$ )



Order the Rubber Packing separately if it becomes lost or damaged. (Refer to page 3.)
The Rubber Packing can be used to achieve an IP66 degree of protection.
(Deterioration, shrinking, or hardening of the rubber packing may occur depending on the operating environment. Therefore, periodic replacement is recommended to ensure the level of waterproofing specified in NEMA4. The time for periodic replacement depends on the operating environment. Be sure to confirm this point at your site. Consider one year a rough standard. OMRON shall not be liable for the level of water resistance if the customer does not perform periodic replacement.)
The Rubber Packing does not need to be attached if a waterproof structure is not required.

## Mounting Adapters

## Y92H-9 (2pcs)



One set is packaged with the product.
Order Mounting Adapters separately if yours are lost or damaged.


ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches, multiply by 0.03937 . To convert grams into ounces, multiply by 0.03527 .
In the interest of product improvement, specifications are subject to change without notice.

## Terms and Conditions Agreement

Read and understand this catalog.
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## Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases
NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.
Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

## Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

## Change in Specifications

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions.
Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.


[^0]:    Note: Be sure to read the precautions for correct use and other precautions in the following user's manual before using the Digital Controller.
    E5AR/E5ER Digital Controller User's Manual (Cat. No. Z182)
    E5AR/E5ER Digital Controller DeviceNet Communication User's Manual (Cat. No. H124)

