The detailed code model allows you to customize specifications best suited to you.

Detailed model code – Control output individual selection
– Option selection

Standard specifications – One Universal input
– Three digital inputs/outputs (Alarms) *Note 1

Examples of additional functions

**Triac output can be selected in Control Output:** -T / -T

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact type</td>
<td>zero-cross</td>
</tr>
<tr>
<td>Load voltage</td>
<td>75 to 250 V</td>
</tr>
<tr>
<td>Contact capacity</td>
<td>Allowable load current</td>
</tr>
<tr>
<td>Application</td>
<td>Time proportional control output</td>
</tr>
<tr>
<td>Time resolution of control output</td>
<td>1/commercial frequency (sec) or 0.1% of the output value, whichever greater</td>
</tr>
</tbody>
</table>

**2 DIs and 2 DOs combination specs can be selected:** /W

The electrical specifications are the same as DI/DO incorporated in the standard model, except for the terminal arrangement.

Example: E1 terminal area option /W1

Bulletin 05P01A01-15EN
## Model and Suffix code

**UT52A-NNN-**  
Digital Indicating Controller (provided with 3 DIs and 3 DOs) (Power supply 100-240 V AC)

### Display language
- 1: English
- 2: German
- 3: French
- 4: Spanish

### Case color
- 1: White (Light gray)
- 2: Black (Light charcoal gray)
- 3: White (Light gray)
- 4: Black (Light charcoal gray)

### Control output 1 (Heating-side, Position proportional) (* 1)
- A: Analog output (current/pulse)
- B: Universal output (current/pulse/relay)
- C: True output
- D: Triac output
- E: Relay output (form C)
- F: Analog output (current/pulse)

### Control output 2 (Cooling-side) (* 1)
- A: Analog output (current/pulse)
- B: True output
- C: Universal output (current/pulse/relay)
- D: Analog output (current/pulse)

### General option
- General option
  - 1: Analog output (current/pulse)
  - 2: True output
  - 3: Universal output (current/pulse/relay)
  - 4: Analog output (current/pulse)

### Output1 Output2
- When you perform heating/cooling control, select one type. If you select -P in Output 1, specify N.

## Model and Suffix code

**UT55A-NNN-**  
Digital Indicating Controller (provided with 3 DIs and 3 DOs) (Power supply 100-240 V AC)

### Display language
- 1: English
- 2: German
- 3: French

### Case color
- 1: White (Light gray)
- 2: Black (Light charcoal gray)
- 3: White (Light gray)
- 4: Black (Light charcoal gray)

### Control output 1 (Heating-side, Position proportional) (* 1)
- A: Analog output (current/pulse)
- B: Universal output (current/pulse/relay)
- C: True output

### Control output 2 (Cooling-side) (* 1)
- A: Analog output (current/pulse)
- B: True output
- C: Universal output (current/pulse/relay)

### General option
- General option
  - 1: Analog output (current/pulse)
  - 2: True output
  - 3: Universal output (current/pulse/relay)
  - 4: Analog output (current/pulse)

### Output1 Output2
- When you perform heating/cooling control, select one type. If you select -P in Output 1, specify N.

---
1. For heating/cooling output, specify both Output 1 and Output 2. Not available when Output 2 is "N". For Position proportional output, specify "S" for Output 1 and "NF" for Output 2.  
2. One option can be selected from each of E1 to E4 terminal area options.  
3. When the /CT option is specified, the UT55A does not conform to the safety standards (UL and CSA) and CE marking.  
4. The "/L4" and "/LC4" of E4 terminal area option can be specified when E3 terminal area option is "Not select", "/CH3," "/X3," "/Y3," or "/W3."  
5. The "/CT" option is specified when E4 terminal area option is "Not select", "/CH3," "/X3," "/Y3," or "/W3."  
6. The "/L1" and "/LCH1" can be specified when Output2 is "N".

---

### Table: Model and Suffix code

<table>
<thead>
<tr>
<th>Model</th>
<th>Suffix code</th>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UT52A</td>
<td>-NNN-</td>
<td></td>
<td>Data Indicating Controller (provided with 3 DIs and 3 DOs) (Power supply 100-240 V AC)</td>
</tr>
<tr>
<td>UT55A</td>
<td>-NNN-</td>
<td></td>
<td>Data Indicating Controller (provided with 3 DIs and 3 DOs) (Power supply 100-240 V AC)</td>
</tr>
</tbody>
</table>

---

### Table: Display language

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>German</td>
<td>French</td>
<td>Spanish</td>
</tr>
</tbody>
</table>

### Table: Case color

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>White (Light gray)</td>
<td>Black (Light charcoal gray)</td>
<td>White (Light gray)</td>
<td>Black (Light charcoal gray)</td>
</tr>
</tbody>
</table>

### Table: Control output 1 (Heating-side, Position proportional)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>Analog output (current/pulse)</td>
<td>Universal output (current/pulse/relay)</td>
<td>True output</td>
<td>Triac output</td>
</tr>
</tbody>
</table>

### Table: Control output 2 (Cooling-side)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>Analog output (current/pulse)</td>
<td>True output</td>
<td>Universal output (current/pulse/relay)</td>
<td>Analog output (current/pulse)</td>
</tr>
</tbody>
</table>

### Table: General option

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>Analog output (current/pulse)</td>
<td>True output</td>
<td>Universal output (current/pulse/relay)</td>
<td>Analog output (current/pulse)</td>
</tr>
</tbody>
</table>

---

**Customize**

---

**Detailed code model**

---

**UT52A-NNN-**  
Digital Indicating Controller (provided with 3 DIs and 3 DOs) (Power supply 100-240 V AC)

### Display language
- Select one type.

### Case color
- Select one type.

### Output1
- Select one type.

### Output2
- When you perform heating/cooling control, select one type. If you select -P in Output 1, specify N.

### General option
- Select any options you need.

### Extension option1
- Select one type.

### Extension option2
- Select one type.

### Extension option3
- Select one type.

### Extension option4
- Select one type.

---

**UT55A-NNN-**  
Digital Indicating Controller (provided with 3 DIs and 3 DOs) (Power supply 100-240 V AC)

### Display language
- Select one type.

### Case color
- Select one type.

### Output1
- Select one type.

### Output2
- When you perform heating/cooling control, select one type. If you select -P in Output 1, specify N.

### General option
- Select any options you need.

### Extension option1
- Select one type.

---

### Detailed code model

---

**Model and Suffix code**

**UT52A-NNN-**  
Digital Indicating Controller (provided with 3 DIs and 3 DOs) (Power supply 100-240 V AC)

### Display language
- Select one type.

### Case color
- Select one type.

### Output1
- Select one type.

### Output2
- When you perform heating/cooling control, select one type. If you select -P in Output 1, specify N.

### General option
- Select any options you need.

### Extension option1
- Select one type.

---

**Model and Suffix code**

**UT55A-NNN-**  
Digital Indicating Controller (provided with 3 DIs and 3 DOs) (Power supply 100-240 V AC)

### Display language
- Select one type.

### Case color
- Select one type.

### Output1
- Select one type.

### Output2
- When you perform heating/cooling control, select one type. If you select -P in Output 1, specify N.

### General option
- Select any options you need.

### Extension option1
- Select one type.

---

### Detailed code model
### Model and Suffix code

#### UT32A-NNN-

<table>
<thead>
<tr>
<th>Model</th>
<th>Suffix code</th>
<th>Optional suffix code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UT32A</td>
<td>NNN</td>
<td>/W1</td>
<td>2 additional DIs and 2 additional DOs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/Y1</td>
<td>5 additional DIs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/X1</td>
<td>24 V DC loop power supply and RS-485 communication (Max. 38.4kbps, 2-wire/4-wire)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/RT</td>
<td>Retransmission output or 15 V DC loop power supply (Max. 38.4kbps, 2-wire/4-wire)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/CH1</td>
<td>RS-485 communication (Max. 38.4kbps, 2-wire)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/W4</td>
<td>5 additional DIs and 2 additional DOs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/Y4</td>
<td>5 additional DIs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/X4</td>
<td>24 V DC loop power supply</td>
</tr>
</tbody>
</table>

#### UT35A-NNN-

<table>
<thead>
<tr>
<th>Model</th>
<th>Suffix code</th>
<th>Optional suffix code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UT35A</td>
<td>NNN</td>
<td>/W1</td>
<td>2 additional DIs and 2 additional DOs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/Y1</td>
<td>5 additional DIs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/X1</td>
<td>24 V DC loop power supply and RS-485 communication (Max. 38.4kbps, 2-wire/4-wire)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/RT</td>
<td>Retransmission output or 15 V DC loop power supply (Max. 38.4kbps, 2-wire/4-wire)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/CH1</td>
<td>RS-485 communication (Max. 38.4kbps, 2-wire)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/W4</td>
<td>5 additional DIs and 2 additional DOs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/Y4</td>
<td>5 additional DIs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/X4</td>
<td>24 V DC loop power supply</td>
</tr>
</tbody>
</table>

### Language, Case color, Output 1, Output 2, General option

<table>
<thead>
<tr>
<th>Language</th>
<th>Case color</th>
<th>Output 1</th>
<th>Output 2</th>
<th>General option</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Black (Light charcoal gray)</td>
<td>N</td>
<td>N</td>
<td>One type. If you select -P in Output 1, specify N.</td>
</tr>
<tr>
<td>Spanish</td>
<td>White (Light gray)</td>
<td>N</td>
<td>N</td>
<td>One type.</td>
</tr>
<tr>
<td>French</td>
<td>Black (Light charcoal gray)</td>
<td>N</td>
<td>N</td>
<td>One type.</td>
</tr>
<tr>
<td>German</td>
<td>White (Light gray)</td>
<td>N</td>
<td>N</td>
<td>One type.</td>
</tr>
</tbody>
</table>

### Position proportional output

- Select one type.

### Heating/cooling output

- Select one type.

### Control output 1

- Select one type.

### Control output 2

- Select one type.

### Extension option

- Select one type.

---

1. For heating/cooling output, both Output 1 and Output 2 should be specified. Not available when Output 2 is "N." For position proportional output, specify "P" for Output 1 and "N" for Output 2.
2. When the code for Output 1 is "N" or "P" and Output 2 is "R" or "U," Output 1 is changed from the contact point c to the contact point a.
3. When the code for Output 1 is specified to "T," only "N" or "R" is available for Output 2.
4. When the CT option is specified, the UT32A does not conform to the safety standards UL and CSA and CE marking.
5. The /RT option can be specified in the combination of Output 1 and Output 2 codes except for "-PN." When the code for Output 1 is "P," not "N.
6. Only one option is available for each terminal area of E1, E3 and E4.
7. The /CH1 option can be specified only when the code for Output 2 is not specified or specified /CH3.
## Detailed code model

### UP55A-NNN-

<table>
<thead>
<tr>
<th>Model</th>
<th>Suffix code</th>
<th>Option suffix code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP55A</td>
<td>NNN</td>
<td></td>
<td>Program Controller (provided with 3 DIs and 3 DOs (Power supply: 100-240 V AC) 80 program patterns/30 program segments) (Max. 38 segments per pattern)</td>
</tr>
<tr>
<td>Fix</td>
<td>NNN</td>
<td></td>
<td>Always &quot;NNN&quot;</td>
</tr>
</tbody>
</table>

### Display language

- English
- German
- French
- Spanish

### Case color

- 0: White (Light gray)
- 1: Black (Dark charcoal gray)
- 2: Blue (Light blue-gray)
- 3: Green (Light green-gray)
- 4: Red (Light red-gray)

### Control Output 1 (2 and 3)

- A: Analog output (current/voltage pulse)
- L: Universal output (current/voltage pulse/relay)
- R: Relay output (c-contact)
- T: Triac output
- U: Universal output (current/voltage pulse)

### Control Output 2 (2 and 3)

- H: Position proportional output
- N: Universal output (current/voltage pulse)

### General option

- DC: Power supply 24 V AC/DC
- CT: Coating
- HA: Heater break alarm
- RT: Retransmission output of 15 V DC power supply

### E1 terminal area option (*4 and 5)

- 4: Only one option is available for each terminal area of E1 to E4.
- 5: The /L4 and /LC4 options for E4 terminal area can be specified only when the code for Output 2 is "R" or "N."

### E2 terminal area option (*4 and 5)

- 4: Only one option is available for each terminal area of E1, E3 and E4.
- 5: The /L4 option for E4 terminal area can be specified only when the E3 terminal area option is not specified.

### E3 terminal area option (*4 and 5)

- 4: When the code for Output 1 is "-T", only "A" or "N" is available for Output 2.
- 5: The /CT option is specified, the UP55A does not conform to the safety standards (UL and CSA) and CE marking.

### E4 terminal area option (*4 and 5)

- 4: When you perform heating/cooling control, select one type. If you select "-P" in Output 1, specify N.

### Extension options

- Extension option1
- Extension option2
- Extension option3
- Extension option4

### Case color

- Select one type.

### Display language

- Select one type.

### Extension options you need.

- Select any options you need.

### General option

- Select one type.

### Output2

- When you perform heating/cooling control, select one type.

### UP35A-NNN-

<table>
<thead>
<tr>
<th>Model</th>
<th>Suffix code</th>
<th>Option suffix code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP35A</td>
<td>NNN</td>
<td></td>
<td>Program Controller (provided with 3 DIs, and 3 DOs) (Power supply: 100-240 V AC) 30 program patterns/30 program segments (Max. 38 segments per pattern)</td>
</tr>
<tr>
<td>Fix</td>
<td>NNN</td>
<td></td>
<td>Always &quot;NNN&quot;</td>
</tr>
</tbody>
</table>

### Display language

- English
- German
- French
- Spanish

### Case color

- 0: White (Light gray)
- 1: Black (Dark charcoal gray)
- 2: Blue (Light blue-gray)
- 3: Green (Light green-gray)
- 4: Red (Light red-gray)

### Control Output 1 (2 and 3)

- A: Analog output (current/voltage pulse)
- U: Universal output (current/voltage pulse/relay)
- F: Triac output

### Control Output 2 (2 and 3)

- H: Position proportional output
- N: Universal output (current/voltage pulse)

### General option

- DC: Power supply 24 V AC/DC
- CT: Coating
- HA: Heater break alarm
- RT: Retransmission output of 15 V DC power supply

### E1 terminal area option (*4)

- 4: Select one type.

### E2 terminal area option (*4)

- 4: Select one type.

### E3 terminal area option (*4 and 5)

- 4: Select one type.
- 5: The /HA option can be specified in the combination of Output 1 and Output 2 codes except for "-PN."

### E4 terminal area option (*4 and 5)

- 4: Select one type.

### Extension options

- Extension option1
- Extension option2
- Extension option3
- Extension option4

### Case color

- Select one type.

### Display language

- Select one type.

### Extension options you need.

- Select any options you need.

### General option

- Select one type.

### Output2

- When you perform heating/cooling control, select one type.

### UP35A-NNN-

<table>
<thead>
<tr>
<th>Model</th>
<th>Suffix code</th>
<th>Option suffix code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP35A</td>
<td>NNN</td>
<td></td>
<td>Program Controller (provided with 3 DIs, and 3 DOs) (Power supply: 100-240 V AC) 30 program patterns/30 program segments (Max. 38 segments per pattern)</td>
</tr>
<tr>
<td>Fix</td>
<td>NNN</td>
<td></td>
<td>Always &quot;NNN&quot;</td>
</tr>
</tbody>
</table>

### Display language

- English
- German
- French
- Spanish

### Case color

- 0: White (Light gray)
- 1: Black (Dark charcoal gray)
- 2: Blue (Light blue-gray)
- 3: Green (Light green-gray)
- 4: Red (Light red-gray)

### Control Output 1 (2 and 3)

- A: Analog output (current/voltage pulse)
- U: Universal output (current/voltage pulse/relay)
- F: Triac output

### Control Output 2 (2 and 3)

- H: Position proportional output
- N: Universal output (current/voltage pulse)

### General option

- DC: Power supply 24 V AC/DC
- CT: Coating
- HA: Heater break alarm
- RT: Retransmission output of 15 V DC power supply

### E1 terminal area option (*6)

- 6: Select one type.

### E2 terminal area option (*6)

- 6: Select one type.

### E3 terminal area option (*6 and 7)

- 6: Select one type.
- 7: The /HA option for E3 terminal area can be specified only when the E4 terminal area option is not specified.

### E4 terminal area option (*6 and 7)

- 6: Select one type.
- 7: The /L4 option for E4 terminal area can be specified only when the E3 terminal area option is not specified or specified any of "-CH3, -Y3, or -W3."

*8: When the ICT option is specified, the UP35A does not conform to the safety standards UL and CSA and CE marking.

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YOKOGAWA ENGINEERING ASIA PTE. LTD.

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