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>Allowable load current</td>
<td>0.8 A (at an ambient temperature of 25°C)</td>
</tr>
<tr>
<td></td>
<td>0.3 A (at an ambient temperature of 50°C)</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**

```
Example: E1 terminal area option /W1
```

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

---

Note 1: UT35A, UT32A: 2 points
### UT55A-NNN-        -

#### General option
- **Display language**: Select one type.
- **Case color**: Select one type.
- **Output1**: Select one type.
- **Output2**: Select any options you need.

#### Extension option1
- **Extension option3**: Select one type.

#### Extension option2
- **Extension option4**: Select one type.

#### Extension option3
- **Extension option5**: Select one type.

---

#### UT52A-NNN-        -

#### General option
- **Display language**: Select one type.
- **Case color**: Select one type.
- **Output1**: Select one type.
- **Output2**: Select any options you need.

#### Extension option1
- **Extension option2**: Select one type.

---

#### Model and Suffix code

<table>
<thead>
<tr>
<th>Model</th>
<th>Suffix code</th>
<th>Output1</th>
<th>Output2</th>
<th>General option</th>
<th>Extension option1</th>
<th>Extension option2</th>
<th>Extension option3</th>
<th>Extension option4</th>
</tr>
</thead>
<tbody>
<tr>
<td>UT55A</td>
<td>NNN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UT52A</td>
<td>NNN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Language
- **English**
- **German**
- **French**

#### Case color
- White (Light gray)
- Black (Light charcoal gray)
- White (Light gray)
- Black (Light charcoal gray)

#### Control output 1
- (Heating-side, Position proportional) (* 1)
  - A: Analog output (current/pulse, uA, mA, V, Hz)
  - U: Universal output (current/pulse/mHz)
  - T: Triac output
  - P: Position proportional output

#### Control output 2
- (Cooling-side) (* 1)
  - A: Analog output (current/pulse)
  - U: Universal output (current/pulse/mHz)
  - N: None

#### E1 terminal area option (* 2, 3)
- D: Power supply 24 V AC/DC
- C: Cooling (I, J)
- R: Heater break alarm
- T: Retransmission output on 15 V DC loop power supply
- U: Remote 1 additional aux. analog input and 1 additional DI
- A: Additional universal input (10V/1kΩ)
- T: Triac output
- Y: 6 additional DIs
- W: 6 additional DIs and 2 additional DOs

#### E2 terminal area option (* 2, 3)
- A: Analog output (current/pulse)
- U: Universal output (current/pulse/mHz)
- A: Additional universal input (10V/1kΩ)
- C: Cooling (I, J)
- R: Heater break alarm
- T: Triac output
- Y: 6 additional DIs
- W: 6 additional DIs and 2 additional DOs

#### E3 terminal area option (* 2)
- D: Devicenet communication (with Modbus master function)
- E: Ethernet communication (with serial gateway function)
- A: Additional universal input (10V/1kΩ)
- C: Cooling (I, J)
- R: Heater break alarm
- T: Triac output
- Y: 6 additional DIs
- W: 6 additional DIs and 2 additional DOs

#### E4 terminal area option (* 2, 4)
- A: Additional aux. analog input and 1 additional DI
- C: Cooling (I, J)
- R: Heater break alarm
- T: Triac output
- U: Universal output (current/pulse/mHz)
- N: None

---

1. For heating/cooling output, specify both Output1 and Output2. Not available when Output2 is "N".
2. Position proportional output, specify "P" for Output1 and "N" for Output2.
3. The HA option can be specified when the code of Output1 and Output2 is "-AN", "-RN", "-UN" or "-TN".
4. The UT52A-NNN- has 24 V DC loop power supply and RS-485 communication (Max.38.4 kbps, 2-wire).

---

**Customize**

#### Model and Suffix code

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

#### Output1
- **General option**
  - **Language**: Select one type.
  - **Case color**: Select one type.
  - **Output1**: Select one type.

#### Extension option1
- **Extension option2**: Select one type.
- **Extension option3**: Select one type.

#### Extension option4
- **Extension option5**: Select one type.

---

1. For heating/cooling output, specify both Output1 and Output2. Not available when Output2 is "N".
2. Position proportional output, specify "P" for Output1 and "N" for Output2.
3. The HA option can be specified when the code of Output1 and Output2 is "-AN", "-RN", "-UN" or "-TN".
4. The UT52A-NNN- has 24 V DC loop power supply and RS-485 communication (Max.38.4 kbps, 2-wire).
### Detailed Code Model

#### UT35A-NNN-

**Model and Suffix Code**

<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>Always “NNN”</td>
<td>Digital indicating Controller (provided with 2 DIs and 3 DCs) (Power supply 100-240 V AC)</td>
</tr>
</tbody>
</table>

**Display Language**

- English
- German
- Spanish

**Case Color**

- White (Light gray)
- Black (Light charcoal gray)

**Control Output 1**

- Heating-Side Position Proportional (* 1, 2 and 4)
  - Relay output (form C)
  - Universal output (current/pulse/relay)
  - Position proportional output

**Control Output 2**

- Cooling-Side (* 1, 2 and 4)
  - Relay output (form A)
  - Universal output (current/pulse/relay)

**General Option**

- DC power supply 24 V AC/DC
- Control (0°)
- Heater break alarm
- Analog output (current/pulse)
- Universal output (current/pulse/relay)
- Position proportional output

**E1 Terminal Area Option**

- 2 additional DIs and 2 additional DOs
- 5 additional DOs
- /L1
- /LCH1
- /U1
- 1 additional universal input (TC/RTD/DCV/mA)
- Remote (1 additional aux. analog) input and 1 additional DI
- Heater break alarm
- Coating (* 3)
- Power supply 24 V AC/DC
- RS-485 communication (Max 38.4 kbps, 2-wire/4-wire)
- 2 additional DIs and 2 additional DOs

**E3 Terminal Area Option**

- 2 additional DIs and 2 additional DOs
- 5 additional DOs
- /L4
- /C4
- /X4
- 1 additional universal input (TC/RTD/DCV/mA)
- Remote (1 additional aux. analog) input and 1 additional DI
- Heater break alarm
- Coating (* 3)
- Power supply 24 V AC/DC
- RS-485 communication (Max 38.4 kbps, 2-wire/4-wire)
- 2 additional DIs and 2 additional DOs

**E4 Terminal Area Option**

- 2 additional DIs and 2 additional DOs
- 5 additional DOs
- /L1
- /C1
- /X1
- 1 additional universal input (TC/RTD/DCV/mA)
- Remote (1 additional aux. analog) input and 1 additional DI
- Heater break alarm
- Coating (* 3)
- Power supply 24 V AC/DC
- RS-485 communication (Max 38.4 kbps, 2-wire/4-wire)
- 2 additional DIs and 2 additional DOs

---

1) For heating/cooling output, both Output 1 and Output 2 should be specified. Not available when Output 2 is "N".
2) When the code for Output 1 is "P" or "U" and Output 2 is "R", Output 2 is changed from the contact point c to the contact point a.
3) When the code for Output 1 is specified to "T". Only "A" or "N" is available for Output 2.
4) The /HA option can be specified in the combination of Output 1 and Output 2 codes except for "-PN".
5) Select one type. If you select "-P" in Output 1, specify "N".
6) Select any options you need.

---

### Detailed Code Model

#### UT32A-NNN-

**Model and Suffix Code**

<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>Always “NNN”</td>
<td>Digital indicating Controller (provided with 2 DIs and 3 DCs) (Power supply 100-240 V AC)</td>
</tr>
</tbody>
</table>

**Display Language**

- English
- German
- Spanish

**Case Color**

- White (Light gray)
- Black (Light charcoal gray)

**Control Output 1**

- Heating-Side Position Proportional (* 1, 2 and 4)
  - Relay output (form C)
  - Universal output (current/pulse/relay)
  - Position proportional output

**Control Output 2**

- Cooling-Side (* 1, 2 and 4)
  - Relay output (form A)
  - Universal output (current/pulse/relay)

**General Option**

- DC power supply 24 V AC/DC
- Control (0°)
- Heater break alarm
- Analog output (current/pulse)
- Universal output (current/pulse/relay)
- Position proportional output

**E1 Terminal Area Option**

- 2 additional DIs and 2 additional DOs
- 5 additional DOs
- /L1
- /CH1
- /U1
- 1 additional universal input (TC/RTD/DCV/mA)
- Remote (1 additional aux. analog) input and 1 additional DI
- Heater break alarm
- Coating (* 3)
- Power supply 24 V AC/DC
- RS-485 communication (Max 38.4 kbps, 2-wire/4-wire)
- 2 additional DIs and 2 additional DOs

**E3 Terminal Area Option**

- 2 additional DIs and 2 additional DOs
- 5 additional DOs
- /L4
- /C4
- /X4
- 1 additional universal input (TC/RTD/DCV/mA)
- Remote (1 additional aux. analog) input and 1 additional DI
- Heater break alarm
- Coating (* 3)
- Power supply 24 V AC/DC
- RS-485 communication (Max 38.4 kbps, 2-wire/4-wire)
- 2 additional DIs and 2 additional DOs

**E4 Terminal Area Option**

- 2 additional DIs and 2 additional DOs
- 5 additional DOs
- /L1
- /C1
- /X1
- 1 additional universal input (TC/RTD/DCV/mA)
- Remote (1 additional aux. analog) input and 1 additional DI
- Heater break alarm
- Coating (* 3)
- Power supply 24 V AC/DC
- RS-485 communication (Max 38.4 kbps, 2-wire/4-wire)
- 2 additional DIs and 2 additional DOs

---

1) For heating/cooling output, both Output 1 and Output 2 should be specified. Not available when Output 2 is "N".
2) When the code for Output 1 is "P" or "U" and Output 2 is "R", Output 2 is changed from the contact point c to the contact point a.
3) When the code for Output 1 is specified to "T". Only "A" or "N" is available for Output 2.
4) The /HA option can be specified in the combination of Output 1 and Output 2 codes except for "-PN".
5) Select one type. If you select "-P" in Output 1, specify "N".
6) Select any options you need.

---
### UP55A-NNN-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) 3 program patterns/300 program segments (Max. 99 segments per pattern)</td>
</tr>
</tbody>
</table>

#### Display language (1)
- English
- German
- French
- Spanish

#### Case color
- Black/White (Light gray)
- Black/Light Green (Light charcoal gray)
- Light gray

#### Control Output 1 (2, 3 and 4)
- "AN" Analog output (current/voltage pulse)
- "N" New output (contact)
- "U" Universal output (current/voltage pulse)/wire

#### Control Output 2 (2, 3 and 4)
- "P" Position proportional output
- "E" New output (contact)

#### General option
- DC Power supply 24 V AC/DC
- C1 Coating
- HA Heater break alarm
- RT Retransmission output or 15 V DC power supply

#### E1 terminal area option (4)
- A1 3 additional universal input (R/O/T/R/DC/DC/vernier/vernier)
- A2 2 additional DIs
- A3 2 additional DIs and 2 additional DOs
- A4 2 additional DIs and 2 additional DOs

#### E2 terminal area option (4)
- A1 3 additional universal input (R/O/T/R/DC/DC/vernier/vernier)
- A2 2 additional DIs
- A3 2 additional DIs and 2 additional DOs
- A4 2 additional DIs and 2 additional DOs

#### E3 terminal area option (*4 and 5)
- DC2 DI-4 contact communication (Max. 36 A, Vdc, 2-wire/4-wire)
- DC3 DI-4 contact communication with Modbus master function
- DP3 PROBUS-CP communication with Modbus master function
- DN3 DeviceNet communication (with Modbus master function)

#### E4 terminal area option (*4 and 5)
- LA 24 V DC loop power supply
- LC4 2 additional DIs and 2 additional DOs

---

(1) English, German, French, and Spanish can be displayed as the guide display. *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) The HA option can be specified only when the code for Output 1 and 2 is "AN", "DC", "RN", or "TN." *3) Only one option is available for each terminal area of E1 to E4. *4) Only one option is available for each terminal area of E1, E3, and E4. *5) The /HA option for E4 terminal area can be specified only when the E3 terminal area option is not specified any of /CH3, /X3, /Y3 or /W3. *6) When the ICT option is specified, the UP55A does not conform to the safety standards UL and CSA and CE marking.