



Digital Indicating Controller

UTAdvanced®

For Customization

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

- | | |
|--------------------------------|---|
| Detailed model code | <ul style="list-style-type: none"> – Control output individual selection – Option selection |
| Standard specifications | <ul style="list-style-type: none"> – One Universal input – Three digital inputs/outputs (Alarms) * Note 1 |



Note 1: UT35A, UT32A: 2 points

Examples of additional functions

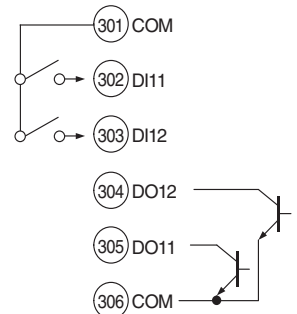
- Triac output can be selected in Control Output: -T ☐ / - ☐ T

ITEM		Specification
Contact type		zero-cross
Contact capacity	Load voltage	75 to 250 V
	Allowable load current	0.8 A (at an ambient temperature of 25°C) 0.3 A (at an ambient temperature of 50°C)
Application		Time proportional control output
Time resolution of control output		1/commercial frequency (sec) or 0.1% of the output value, whichever greater

- 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

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Customize

Detailed code model

Model and Suffix code

UT55A-NNN-

Language Case color Output1 Output2 General option Extension option1 Extension option2 Extension option3 Extension option4



Model	Suffix code	Optional suffix code	Description
UT55A			Digital Indicating Controller (provided with 3 DIs and 3 DOs) (Power supply 100-240 V AC)
Fix	-N N N		Always "-NNN"
Display language	-1		English
	-2		German
	-3		French
	-4		Spanish
Case color	0		White (Light gray)
	1		Black (Light charcoal gray)
Control output 1 (Heating-side, Position proportional) (* 1)	-A		Analog output (current/pulse)
	-R		Relay output (form C)
	-U		Universal output (current/pulse/relay)
	-T		Triac output
	-P		Position proportional output
Control output 2 (Cooling-side) (* 1)	A		Analog output (current/pulse)
	R		Relay output (form C)
	U		Universal output (current/pulse/relay)
	T		Triac output
	N		None
General option	/DC		Power supply 24 V AC/DC
	/CT		Coating (* 3)
	/HA		Heater break alarm
	/RT		Retransmission output or 15 V DC loop power supply
E1 terminal area option (* 2)	/R1		Remote (1 additional aux. analog) input and 1 additional DI
	/U1		1 additional universal input (TC/RTD/DCV/mA)
	/X1		5 additional DIs
	/Y1		5 additional DOs
E2 terminal area option (* 2)	/W1		2 additional DIs and 2 additional DOs
	/A2		1 additional aux. analog input and 1 additional DI
	/X2		5 additional DIs
	/Y2		5 additional DOs
E3 terminal area option (* 2)	/W2		2 additional DIs and 2 additional DOs
	/CH3		RS-485 communication (Max.38.4 kbps, 2-wire/4-wire)
	/CC3		CC-Link communication (with Modbus master function)
	/PD3		PROFIBUS-DP communication (with Modbus master function)
E4 terminal area option (* 2,4)	/DN3		DeviceNet communication (with Modbus master function)
	/ET3		Ethernet communication (with serial gateway function)
	/X3		5 additional DIs
	/Y3		5 additional DOs
	/W3		2 additional DIs and 2 additional DOs
	/A4		1 additional aux. analog input and 1 additional DI
	/C4		RS-485 communication (Max.19.2 kbps, 2-wire/4-wire)
	/L4		24 V DC loop power supply
	/AC4		1 additional aux. analog input, 1 additional DI, and RS-485 communication (Max.19.2 kbps, 2-wire)
	/LC4		24 V DC loop power supply and RS-485 communication (Max.19.2 kbps, 2-wire)
	/X4		5 additional DIs
	/Y4		5 additional DOs
	/W4		2 additional DIs and 2 additional DOs

* 1) For heating /cooling output, specify both Output1 and Output2. Not available when Output2 is "N". For Position proportional output, specify "P" for Output1 and "N" for Output2.
The /HA option can be specified when the code of Output1 and Output2 is "-AN", "-RN", "-UN" or "-TN".
* 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".

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.

Detailed code model

Model and Suffix code

UT52A-NNN-

Language Case color Output1 Output2 General option Extension option1



Model	Suffix code	Optional suffix code	Description
UT52A			Digital Indicating Controller (provided with 3 DIs and 3 DOs) (Power supply 100-240 V AC)
Fix	-N N N		Always "-NNN"
Display language	-1		English
	-2		German
	-3		French
	-4		Spanish
Case color	0		White (Light gray)
	1		Black (Light charcoal gray)
Control output 1 (Heating-side, Position proportional) (* 1 and 4)	-A		Analog output (current/pulse)
	-R		Relay output (form C)
	-U		Universal output (current/pulse/relay)
	-T		Triac output
	-P		Position proportional output
Control output 2 (Cooling-side) (* 1 and 4)	A		Analog output (current/pulse)
	R		Relay output (form A)
	U		Universal output (current/pulse/relay)
	N		None
General option	/DC		Power supply 24 V AC/DC
	/CT		Coating (* 3)
	/HA		Heater break alarm
	/RT		Retransmission output or 15 V DC loop power supply
E1 terminal area option (* 2, 5)	/R1		Remote (1 additional aux. analog) input and 1 additional DI
	/U1		1 additional universal input (TC/RTD/DCV/mA)
	/L1		24 V DC loop power supply
	/CH1		RS-485 communication (Max.38.4kbps, 2-wire/4-wire)
	/RCH1		Remote (1 additional aux. analog) input, 1 additional DI, and RS-485 communication (Max.38.4kbps, 2-wire)
	/LCH1		24 V DC loop power supply and RS-485 communication (Max.38.4kbps, 2-wire)
	/X1		5 additional DIs
	/Y1		5 additional DOs
	/W1		2 additional DIs and 2 additional DOs

* 1) For heating /cooling output, specify both Output1 and Output2. Not available when Output2 is "N". For Position proportional output, specify "P" for Output1 and "N" for Output2.
The /HA option can be specified when the code of Output1 and Output2 is "-AN", "-RN", "-UN" or "-TN".
* 2) One option can be selected from E1 terminal area option.
* 3) When the /CT option is specified, the UT52A does not conform to the safety standards (UL and CSA) and CE marking.
* 4) When Output1 is "R", "U", contact point C is changed to contact point A when Output2 is "R" or "U". When Output1 is "T", only "A" or "N" can be specified for Output2.
* 5) The "/L1" and "/LCH1" can be specified when Output2 is "N".

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.

UT35A-NNN-

- - - / / / / /

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 option3
Select one type.

Extension option4
Select one type.

- ### Detailed code model

UT32A-NNN-

— — / / / / /

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.

- * 1) For heating/cooling output, both Output 1 and Output 2 should be specified. Not available when Output 2 is "N".
 * 2) For position proportional output, specify "P" for Output 1 and "N" for Output 2.
 * 3) When the code for Output 1 is "R" or "U" and Output 2 is "R" or "U", Output 1 is changed from the contact point c to the contact point a.
 * 4) When the code for Output 1 is specified to "T", only "A" or "N" is available for Output 2.
 * 5) When the /CT option is specified, the UT32A does not conform to the safety standards (UL and CSA) and CE marking.
 * 6) The /HA option can be specified in the combination of Output 1 and Output 2 codes except for "P-N".
 * 7) The /RT or /BT option can be specified only when the code for Output 2 is "R" or "N".
 * 8) Only one option is available for E1 terminal area.
 * 9) The /L1 or /LCH1 option can be specified only when the code for Output 2 is "N".

Detailed code model

Model and Suffix code

UP55A-NNN-

Language Case color Output1 Output2 General option Extension option1 Extension option2 Extension option3 Extension option4

Model	Suffix code	Optional suffix code	Description
UP55A			Program Controller (provided with 3 DIs, and 3 DOs) (Power supply: 100-240 V AC)
Fix	-N N N		Always "-NNN"
Display language (*1)	-1		English
	-2		German
	-3		French
	-4		Spanish
Case color	0		White (Light gray)
	1		Black (Light charcoal gray)
Control Output 1 (*2 and 3)	-A		Analog output (current/voltage pulse)
	-R		Relay output (c-contact)
	-U		Universal output (current/voltage pulse/relay)
	-T		Triac output
	-P		Position proportional output
Control Output 2 (*2 and 3)	A		Analog output (current/voltage pulse)
	R		Relay output (c-contact)
	U		Universal output (current/voltage pulse/relay)
	T		Triac output
	N		None
General option	/DC		Power supply 24 V AC/DC
	/CT		Coating
	/HA		Heater break alarm
	/RT		Retransmission output or 15 V DC power supply
E1 terminal area option (*4)	/R1		Remote (1 additional aux. analog) input and 1 additional DI
	/U1		1 additional universal input (TC/RTD/DCV/mA)
	/X1		5 additional DIs
	/Y1		5 additional DOs
	/W1		2 additional DIs and 2 additional DOs
E2 terminal area option (*4)	/A2		1 additional aux. analog input and 1 additional DI
	/X2		5 additional DIs
	/Y2		5 additional DOs
	/W2		2 additional DIs and 2 additional DOs
E3 terminal area option (*4 and 5)	/CH3		RS-485 communication (Max. 38.4 kbps, 2-wire/4-wire)
	/CC3		CC-Link communication (with Modbus master function)
	/PD3		PROFIBUS-DP communication (with Modbus master function)
	/DN3		DeviceNet communication (with Modbus master function)
	/ET3		Ethernet communication (with serial gateway function)
	/X3		5 additional DIs
	/Y3		5 additional DOs
	/W3		2 additional DIs and 2 additional DOs
E4 terminal area option (*4 and 5)	/A4		1 additional aux. analog input and 1 additional DI
	/C4		RS-485 communication (Max. 19.2 kbps, 2-wire/4-wire)
	/L4		24 V DC loop power supply
	/AC4		1 additional aux. analog input, 1 additional DI, and RS-485 communication (Max.19.2 kbps, 2-wire)
	/LC4		24 V DC loop power supply and RS-485 communication (Max.19.2 kbps, 2-wire)
	/X4		5 additional DIs
	/Y4		5 additional DOs
	/W4		2 additional DIs and 2 additional DOs

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



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.

Model and Suffix code

UP35A-NNN-

Language Case color Output1 Output2 General option Extension option1 Extension option3 Extension option4

Model	Suffix code	Optional suffix code	Description
UP35A			Program Controller (provided with 3 DIs, and 3 DOs) (Power supply: 100-240 V AC)
Fix	-N N N		Always "-NNN"
Display language (*1)	-1		English
	-2		German
	-3		French
	-4		Spanish
Case color	0		White (Light gray)
	1		Black (Light charcoal gray)
Control Output 1 (*2, 3 and 5)	-A		Analog output (current/voltage pulse)
	-R		Relay output (c-contact)
	-U		Universal output (current/voltage pulse/relay)
	-T		Triac output
	-P		Position proportional output
Control Output 2 (*2, 3, 4 and 5)	A		Analog output (current/voltage pulse)
	R		Relay output (a-contact)
	U		Universal output (current/voltage pulse/relay)
	N		None
General option	/AP		2 additional patterns/20 additional segments
	/DC		Power supply 24 V AC/DC
	/CT		Coating
	/HA		Heater break alarm
	/RT		Retransmission output or 15 V DC power supply
E1 terminal area (*6)	/X1		5 additional DIs
	/Y1		5 additional DOs
	/W1		2 additional DIs and 2 additional DOs
E3 terminal area (*6 and 7)	/CH3		RS-485 communication (Max. 38.4 kbps, 2-wire/4-wire)
	/CC3		CC-Link communication (with Modbus master function)
	/PD3		PROFIBUS-DP communication (with Modbus master function)
	/DN3		DeviceNet communication (with Modbus master function)
	/ET3		Ethernet communication (with serial gateway function)
E4 terminal area (*6 and 7)	/L4		24 V DC loop power supply
	/X4		5 additional DIs
	/Y4		5 additional DOs
	/W4		2 additional DIs and 2 additional DOs

*1) English, German, French, and Spanish can be displayed as the guide display. *2) 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. *3) When the code for Output 1 is "-R" or "-U" and Output 2 is "R" or "U", Output 1 is changed from the contact point c to the contact point a. When the code for Output 1 is specified to "-T", only "A" or "N" is available for Output 2. *4) The /RT option can be specified only when the code for Output 2 is "R" or "N". *5) The /HA option can be specified in the combination of Output 1 and Output 2 codes except for "-PN". *6) Only one option is available for each terminal area of E1, E3 and E4. *7) The /L4 option for E4 terminal area can be specified only when the E3 terminal area option is not specified or specified /CH3. *8) When the /CT option is specified, the UP35A does not conform to the safety standards (UL and CSA) and CE marking.

Detailed code model



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 option3
Select one type.

Extension option4
Select one type.

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