



Product line-up

Digital Indicating Controller UT55A / UT52A / UT35A / UT32A



Model		UT55A	UT52A	UT35A	UT32A	
Size	1/4 DIN	✓	—	✓	—	
	1/8 DIN	—	✓	—	✓	
	Depth from the panel surface (mm)	65	65	65	65	
Control Scan Period	(msec)	Choice 50/100/200	Choice 50/100/200	200	200	
Display Function	Number of PV Display Digits	5	5	5	5	
	Active Color PV Display Function	✓	✓	✓	✓	
	Guide Scroll Display Function	✓	✓	✓	✓	
	Message Display Function	✓	✓	✓	✓	
	Bar graph display (Number)	✓ (2)	✓ (2)	✓ (1)	✓ (1)	
PV Input Indication Accuracy	(% of F.S.)	0.1	0.1	0.1	0.1	
PV Input Type	TC	✓	✓	✓	✓	
	RTD (3-wire)	✓	✓	✓	✓	
	RTD (4-wire)	✓	✓	—	—	
	mV, V	✓	✓	✓	✓	
	mA	✓	✓	✓	✓	
Number of Analog Inputs	Standard (Maximum)	1 (4)	1 (2)	1	1	
Number of SPs (PIDs)	Maximum	8	8	4	4	
Number of Control Modes	Maximum	8	8	1	1	
Number of Control Types	Maximum	8	8	5	5	
Control Output	Type	Relay Contact Output, Voltage pulse output, Current output	✓	✓	✓	✓
	Algorithm	ON/OFF	✓	✓	✓	✓
		PID (Continuance, Time Proportion)	✓	✓	✓	✓
		Position proportional	✓	✓	✓	✓
		Heating / cooling	✓	✓	✓	✓
Number of Analog Outputs	Standard (Maximum)	2 (3)	2 (3)	2	2	
Number of Digital Inputs	Standard (Maximum)	3 (9)	3 (5)	2 (7)	2 (4)	
Number of Alarms		8	8	4	4	
Number of Digital Outputs	Standard (Maximum)	3 (18)	3 (5)	3 (8)	3 (5)	
Communication	RS-485 communication (Maximum)	✓ (2)	✓ (1)	✓ (1)	✓ (1)	
	Ethernet communication	✓	—	✓	—	
	Open Network (CC-Link/PROFIBUS-DP /DeviceNet)	✓	—	✓	—	
	Quick Setting Function	✓	✓	✓	✓	
Various Function	Split Computation Output Function	✓	✓	—	—	
	Ratio and Square Root Extraction Function	✓	✓	—	—	
	Remote SP Function	✓	✓	—	—	
	24 V DC Loop Power Supply Function	✓	✓	✓	✓	
	Heater Break Alarm Function	✓ (Standard type)	✓ (Standard type)	✓ (Standard type or Heating/cooling type)	✓ (Standard type or Heating/cooling type)	
Ladder Sequence Function	(Number of max. steps)	✓ (500)	✓ (500)	✓ (300)	✓ (300)	
Other Specifications	Power Supply	AC100 V to 240 V	✓	✓	✓	✓
		AC/DC 24 V	✓	✓	✓	✓
	Configuration Tool	Dust and waterproof Level of Front Panel	NEMA4*1 (IP56)	NEMA4*1 (IP56)	NEMA4*1 (IP56)	NEMA4*1 (IP56)
		Via Light-loader Communication	✓	✓	✓	✓
		Via Maintenance Port Communication	✓	✓	✓	✓
Via RS-485/Ethernet communication	✓ / ✓	✓ / —	✓ / ✓	✓ / —		

The table above includes specifications of the standard models only.

* 1: Hose down test only.

Input Range

Input type	
TC	K, J, T, B, S, R, N, E, L, U, W PL-2, PR20-40, W97Re3-W75Re25
RTD	JPt100, Pt100
DC Voltage	0.4 to 2.0 V, 1.0 to 5.0 V, 0.0 to 2.0 V, 0 to 10 V, -10 to 20 mV, 0 to 100 mV
DC Current	4 to 20 mA, 0 to 20 mA

Program Controller UP55A / UP35A, Digital Indicator with Alarms UM33A



Model		UP55A	UP35A	UM33A	
Size	1/4 DIN	✓	✓	—	
	1/8 DIN	—	—	✓	
	Depth from the panel surface (mm)	65	65	65	
Control Scan Period	(msec)	Choice 100/200	200	Choice 50/100/200	
Display Function	Number of PV Display Digits	5	5	5	
	Active Color PV Display Function	✓	✓	✓	
	Guide Scroll Display Function	✓	✓	✓	
	Message Display Function	✓	✓	✓	
	Bar graph display (Number)	✓ (2)	✓ (1)	—	
PV Input Indication Accuracy	(% of F.S.)	0.1	0.1	0.1	
PV Input Type	TC	✓	✓	✓	
	RTD (3-wire)	✓	✓	✓	
	RTD (4-wire)	✓	—	—	
	mV, V	✓	✓	✓	
	mA	✓	✓	✓	
Number of Analog Inputs	Standard (Maximum)	1 (4)	1	1	
Number of SPs (PIDs)	Fixed	8	4	—	
Number of Control Modes	Maximum	5	1	—	
Number of Control Types	Maximum	4	4	—	
Control Output	Type	Relay Contact Output, Voltage pulse output, Current output	✓	✓	—
	Algorithm	ON/OFF	✓	✓	—
		PID (Continuance, Time Proportion)	✓	✓	—
		Position proportional	✓	✓	—
		Heating / cooling	✓	✓	—
Number of Analog Outputs	Standard (Maximum)	2 (3)	2	1	
Number of Digital Inputs	Standard (Maximum)	8 (9)	3 (8)	2	
Number of Program Patterns	Standard (Maximum)	30	2 (4)	—	
Number of Programs	Standard (Maximum)	300	20 (40)	—	
Number of Segments per Pattern	Standard (Maximum)	99	10	—	
Number of PV Events	(Per segment)	8	2	—	
Number of Time Events	(Per segment)	16	4	—	
Number of Alarms	Maximum	8	2	8	
Number of Digital Outputs	Standard (Maximum)	8 (18)	3 (8)	3 (9)	
Communication	RS-485 communication (Maximum)	✓ (2)	✓ (1)	✓ (1)	
	Ethernet communication	✓	✓	—	
	Open Network (CC-Link/PROFIBUS-DP /DeviceNet)	✓	✓	—	
Various Function	Quick Setting Function	✓	✓	✓	
	Split Computation Output Function	✓	—	✓	
	Ratio and Square Root Extraction Function	✓	—	✓ *3	
	Remote SP Function	✓	—	✓	
	24 V DC Loop Power Supply Function	✓ *2	✓ *2	✓	
	Heater Break Alarm Function	✓ (Standard type)	✓ (Standard type)	—	
Ladder Sequence Function	(Number of max. steps)	✓ (500)	✓ (300)	—	
Other Specifications	Power Supply	AC100 V to 240 V	✓	✓	✓
		AC/DC 24 V	✓	✓	✓
	Configuration Tool	Dust and waterproof Level of Front Panel	NEMA4*1 (IP56)	NEMA4*1 (IP56)	NEMA4*1 (IP56)
		Via Light-loader Communication	✓	✓	✓
		Via Maintenance Port Communication	✓	✓	✓
Via RS-485/Ethernet communication	✓ / ✓	✓ / ✓	✓ / —		

The table above includes specifications of the standard models only.

* 1: Hose down test only.

* 2: This function is available when the /L4 or /LC4 option is specified with the detailed code model.

* 3: Square root extraction available



Product line-up

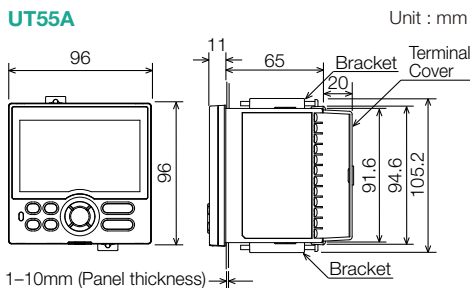
Program Controller UP55A (Standard model)



Main Features

- Up to 30 program patterns
- 8 PV events, 16 time events, and 8 alarms can be monitored simultaneously
- Ladder sequence programs can be built
- Simple operation
- Up to 9 DIs and 18 DOs (combinations available)
- Multiple language operation manual (Japanese, English, German, French, Spanish, Chinese, and Korean) available. Please specify the desired language when ordering.

External Dimensions



Model and Suffix Codes

Model	Suffix code	Optional suffix code	Description
UP55A			Program Controller (provided with retransmission output or 15 V DC loop power supply, 8 DIs, and 8 DOs) (Power supply: 100-240 V AC) 30 program patterns / 300 program segments (Max. 99 segments per pattern)
Basic control	-0		Standard type
	-1		Position proportional type
	-2		Heating/cooling type
Functions (*1)	0		None
	1		Remote (1 additional aux. analog) input, 1 additional DI
	2		RS-485 communication (Max.19.2 kbps, 2-wire/4-wire)
	3		10 additional DOs
	4		3 additional aux. analog inputs, 2 DIs and 5 DOs to be deleted
Open networks	0		None
	1		RS-485 communication (Max.38.4 kbps, 2-wire/4-wire)
	2		Ethernet communication (with serial gateway function)
	3		CC-Link communication (with Modbus master function)
	4		PROFIBUS-DP communication (with Modbus master function)
Display language (*2)	-1		English
	-2		German
	-3		French
	-4		Spanish
Case color	0		White (Light gray)
	1		Black (Light charcoal gray)
Fixed code		-00	Always "-00"
Optional suffix codes		/DR	Additional direct input (TC and 3-wire/4-wire RTD) and current input to Remote (1 additional aux. analog) input, 1 DI to be deleted (*3)
		/HA	Heater break alarm (*4)
		/DC	Power supply 24 V AC/DC
		/CT	Coating (*5)

* 1: When "3" is specified for the Function code, only "0" can be specified for the Open network code.

* 2: English, German, French, and Spanish can be displayed as the guide display.

* 3: When any of "1" or "4" is specified for the Function code, the /DR option can be specified.

* 4: When "-0" is specified for the Basic control code, the /HA option can be specified.

* 5: When the /CT option is specified, the UP55A does not conform to the safety standards (UL and CSA) and CE marking.

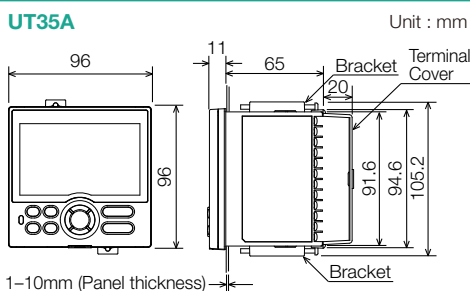
Program Controller UP35A (Standard model)



Main Features

- Up to 4 program patterns
- 2 PV events, 4 time events, and 2 alarms can be monitored simultaneously.
- Ladder sequence programs can be built
- Simple operation
- Up to 8 DIs and 8 DOs (combinations available)
- Multiple language operation manual (Japanese, English, German, French, Spanish, Chinese, and Korean) available. Please specify the desired language when ordering.

External Dimensions



Model and Suffix Codes

Model	Suffix code	Optional suffix code	Description
UP35A			Program Controller (provided with retransmission output or 15 V DC loop power supply, 3 DIs, and 3 DOs) (Power supply: 100-240 V AC) 2 program patterns/20 program segments (Max. 20 segments per pattern)
Basic control	-0		Standard type
	-1		Position proportional type
	-2		Heating/cooling type
Functions	0		None
	1		5 additional DIs, 5 additional DOs
Open networks	0		None
	1		RS-485 communication (Max.38.4 kbps, 2-wire/4-wire)
	2		Ethernet communication (with serial gateway function)
	3		CC-Link communication (with Modbus master function)
	4		PROFIBUS-DP communication (with Modbus master function)
Display language (*1)	-1		English
	-2		German
	-3		French
	-4		Spanish
Case color	0		White (Light gray)
	1		Black (Light charcoal gray)
Fixed code		-00	Always "-00"
Optional suffix codes		/AP	2 additional patterns/20 additional segments
		/HA	Heater break alarm (*2)
		/DC	Power supply 24 V AC/DC
		/CT	Coating (*3)

* 1: English, German, French, and Spanish can be displayed as the guide display.

* 2: The /HA option can be specified when the Basic control code is "-0" or "-2."

* 3: When the /CT option is specified, the UP35A does not conform to the safety standards (UL and CSA) and CE marking.