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Digital Display Controller Manual ECC-1100

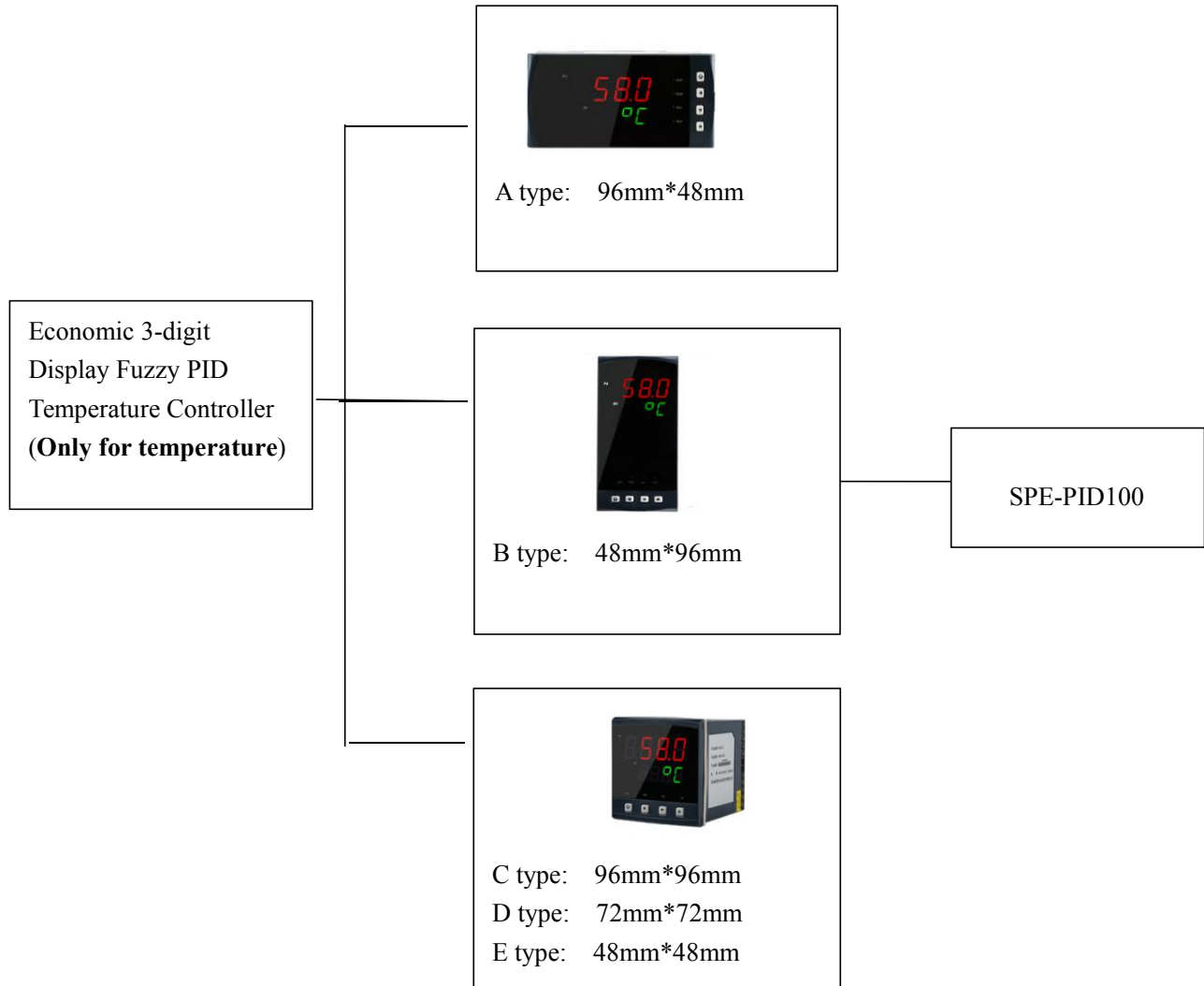
Product overview:

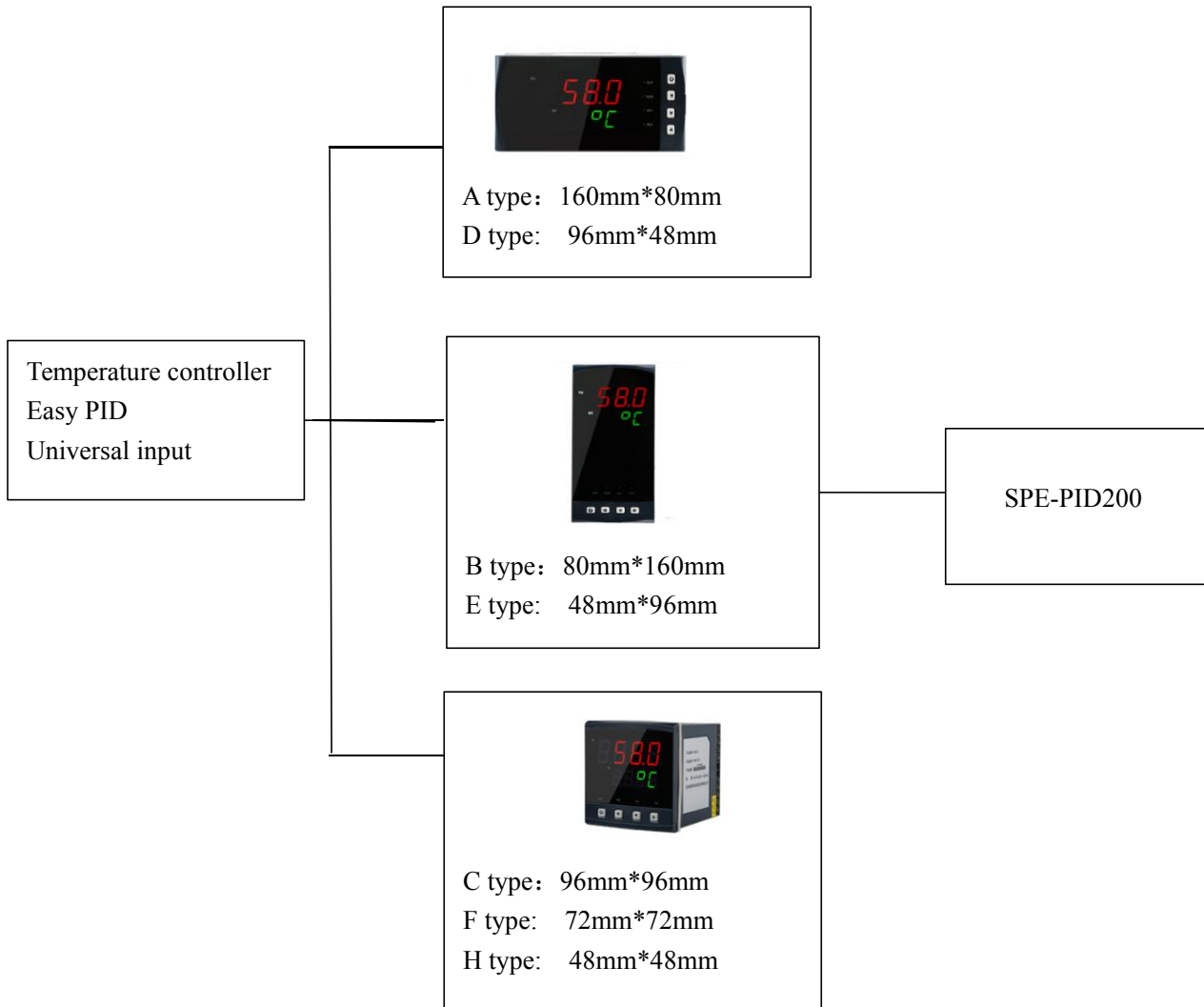
SPE-PID Series That Pursues Greater Visibility with 7 types of dimensions available, supporting 2 alarm functions, with transmission output. Optical isolation for input terminal, output terminal, a power supply terminal, 100-240V AC or 20-29V DC, standard snap-on installation, ambient temperature at 0-50 °C, and the relative humidity of 5-85% RH (no condensation). A Wide Lineup of Models to Meet a Wide Range of User Needs.

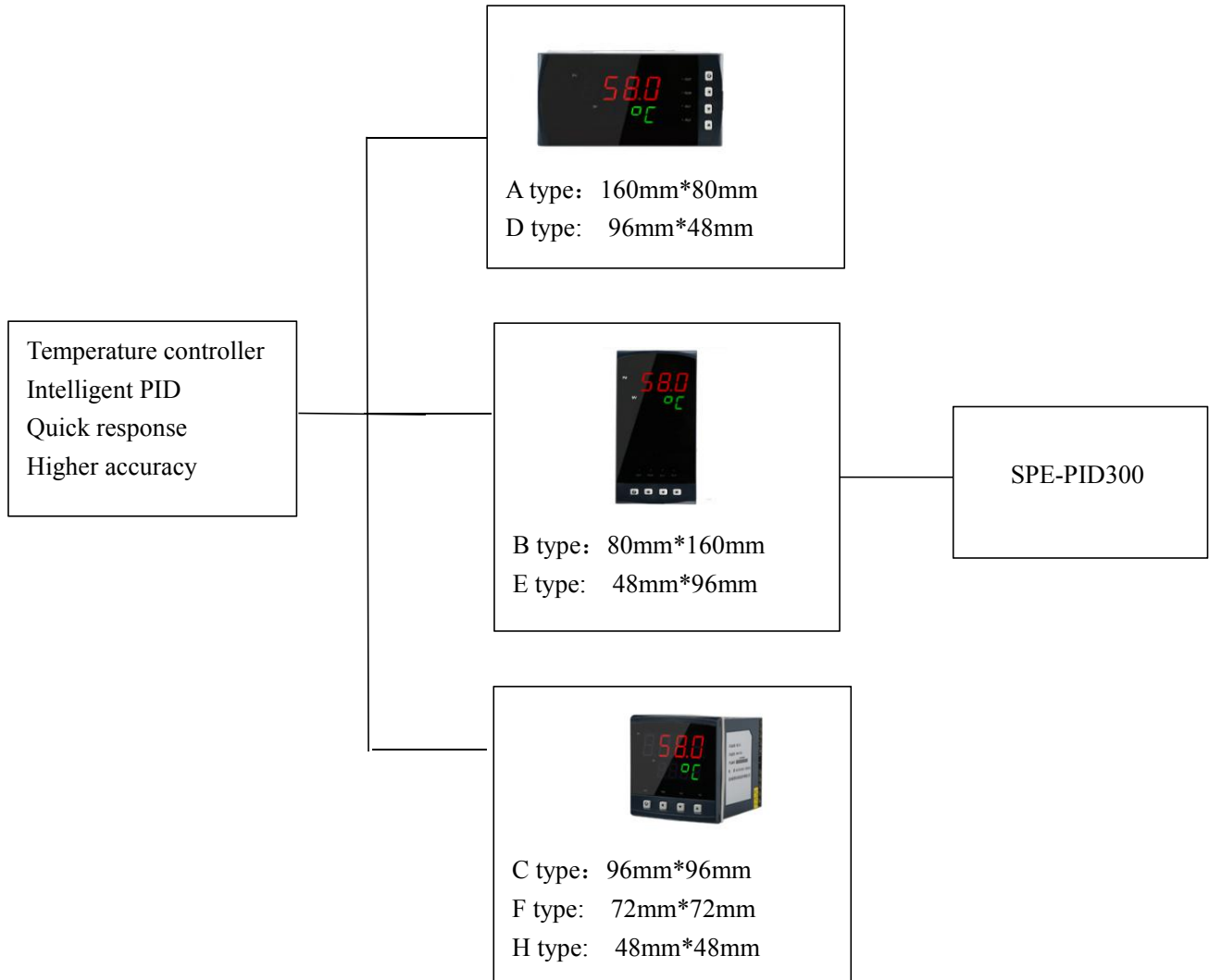
Features:

- * Easy operation with measurement precision of 0.3%
- * Various types of dimensions available for different application
- * Applicable to measurement of industrial process quantifiers
- * Supporting relay outputs, analog output or RS485 communication MODBUS
- * Optional DC24V power distribution
- * Standard snap-in installation
- * Photoelectric isolation between input and output
- * Optional power supply; 100-240V AC or 20-29V DC
- * Operating temperature: 0-50°C, Relative humidity: 5-85% RH without coagulation.

Dimension

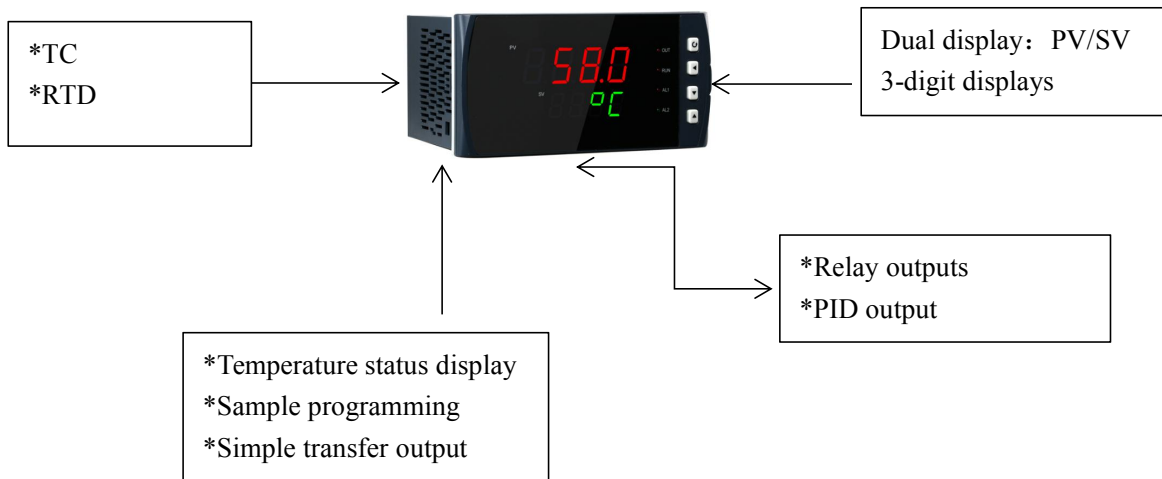




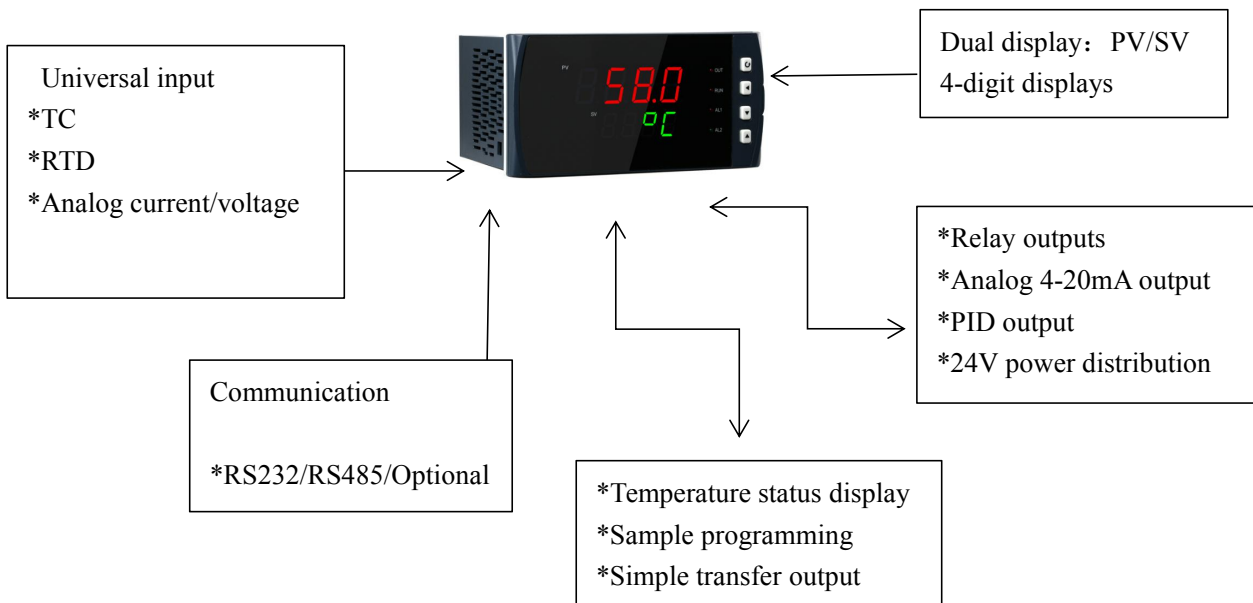


Functions

SPE-PID 100

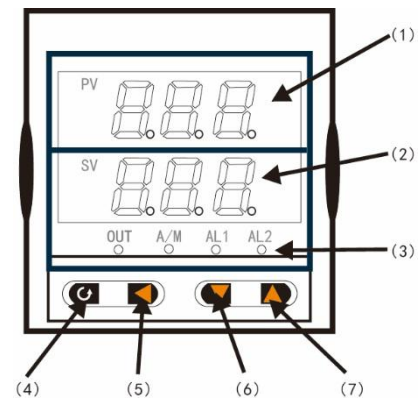


SPE-PID 200/300



Terminal and Display

- (1) PV display window (measured value)
- (2) SV display window
-In measurement state, it displays the control target value;
-In parameters setting state, it displays the setpoint.
- (3) The first alarm (AL1) and the second alarm (AL2) indicators, manual light (A/M) and output light (OUT)
- (4) Confirm key
- (5) Shift key
- (6) Down key
- (7) Up key



Model Selection

SPE-PID100

① Specification		② Input graduation	
Code	Width×height×depth	No.	Graduation (measurement range)
C	Type: 96*96mm (Horizontal)	00	TC B(400~999℃)
D	Type: 96*48mm (Horizontal)	01	TC S(0~999℃)
E	Type: 48*96mm (Vertical)	02	TC K(0~999℃)
F	Type: 72mm*72mm(Square)	03	TC E(0~999℃)
H	Type: 48mm*48mm(Square)	04	TC T(0~400℃)
		05	TC J(0~999℃)
		06	TC R(0~999℃)
		07	TC N(0~999℃)
		11	RTD Cu50(-50~150℃)
		14	RTD Pt100(-199~650℃)
③ PID output		④ Relay output	
Code	Output type (load resistance RL)	Code	Relay numbers
0	4-20mA (RL≤600Ω)	X	No

1	1-5V (RL \geq 250K Ω)	1	1 relay output
K1	Relay contact output	2	2 relay outputs
K3	Single-phase silicon controlled rectifier zero passage triggering pulse output		
K4	Solid state relay driven voltage output		
⑤ Power supply		⑥ Remarks	
Code	Voltage range		
A	AC/DC 100~240V (50/60Hz)		
D	DC 12~36V		

SPE-PID200

① Specification		② Input graduation	
Code	Width×height×depth	Code	Graduation (measurement range)
A	160x80x110mm (horizontal)	00	TC B (400~1800°C)
B	80x160x110mm (vertical)	01	TC S (0~1600°C)
C	96x96x110mm (square)	02	TC K (0~1300°C)
D	96x48x110mm (horizontal)	03	TC E(0~1000°C)
E	48x96x110mm (vertical)	04	TC (-200.0~400.0°C)
F	72x72x110mm (square)	05	TC J (0~1200°C)
H	48x48x110mm (square)	06	TC R(0~1600°C)
③ PID output		07	TC N (0~1300°C)
Code	Output type (load resistance RL)	08	TC F2 (700~2000°C)
0	4-20mA (RL \leq 600 Ω)	09	TC Wre3-25 (0~2300°C)
1	1-5V (RL \geq 250K Ω)	10	TC Wre5-26 (0~2300°C)
2	0-10mA (RL \leq 1.2K Ω)	11	RTD Cu50 (-50.0~150.0°C)
3	0-5V (RL \geq 250K Ω)	12	RTD Cu53 (-50.0~150.0°C)
4	0-20mA (RL \leq 600 Ω)	13	RTD CU100 (-50.0~150.0°C)
5	0-10V(RL \geq 4K Ω)	14	RTD PTt100 (-200.0~650.0°C)
K1	Relay contact output	15	RTD BA1(-200.0~600.0°C)
K3	Single-phase silicon controlled rectifier zero passage triggering pulse output	16	RTD BA2 (-200.0~600.0°C)
K4	Solid state relay driven voltage output	17	Linear RTD ~500 Ω (-1999~9999)
④ Communication		18	Remote transmission RTD 0~350 Ω (-1999~9999)
Code	Communication	19	Remote transmission RTD 30~350 Ω (-1999~9999)
X	NO	20	0~20mv (-1999~9999)
1	RS-485 communication interface (Modbus)	21	0~40mv (-1999~9999)
⑤ Rely output		22	0~100mv (-1999~9999)

Code	Rely output	23	Reserved internally
X	No output	24	Reserved internally
1	1-relay output	25	0~20ma (-1999~9999)
2	2-relay outputs	26	0~10mA (-1999~9999)
⑥ Power distribution		27	4~20mA (-1999~9999)
Code	Power distribution (output voltage)	28	0~5V (-1999~9999)
X	No output	29	1~5V (-1999~9999)
1P	1-Power distribution For example, "P(24)" means feed output 24V	30	Reserved internally
		31	0~10V (-1999~9999)
		32	0~10mA (extraction) (-1999~9999)
		33	4~20mA (extraction) (-1999~9999)
		34	0~5V (extraction) (-1999~9999)
		35	1~5V (extraction) (-1999~9999)
		55	Full switch
⑦ Power supply			
Code	Voltage range		
A	AC/DC100~240V (AC/50-60Hz)		
D	DC 20-29 V		
⑧ Remarks			

SPE-PID300

① Specification		② Indexing number of Loop 1(measuring loop)	
		③ Indexing number of Loop 2 (Valve position feeder or external given)	
Code	width*height*depth	Code	Input graduation
A	160*80*110mm(Horizontal)	X	NO
B	80*160*110mm(Vertical)	00	TC B (400~1800℃)
C	96*96*110mm(Quadrate)	01	TC S (0~1600℃)
D	96*48*110mm(Horizontal)	02	TC K (0~1300℃)
E	48*96*110mm(Vertical)	03	TC E (0~1000℃)
F	72*72*110mm(Quadrate)	04	TC T (-200.0~400.0℃)
H	48*48*110mm(Quadrate)	05	TC J (0~1200℃)
K	160*80*110mm (Horizontal / light beam)	06	TC R (0~1600℃)
		07	TC N (0~1300℃)

L	80*160*110mm (Vertical / light beam)	08	TC F2 (700~2000°C)
M	96*96*110mm (Quadrate / light beam)	09	TC Wre3-25 (0~2300°C)
		10	TC Wre5-26 (0~2300°C)
		11	RTD Cu50 (-50.0~150.0°C)
④PID output 1		12	RTD Cu53 (-50.0~150.0°C)
Code	output type (Load resistance RL)	13	RTD Cu100 (-50.0~150.0°C)
0	4~20mA (RL≤600Ω)	14	RTD Pt100 (-200.0~600.0°C)
1	1~5V (RL≥250KΩ)	15	RTD BA1 (-200.0~600.0°C)
2	0~10mA (RL≤1.2KΩ)	16	RTD BA2 (-200.0~600.0°C)
3	0~5V (RL≥250KΩ)	17	Linear resistance 0~400Ω (-1999~9999)
4	0~20mA (RL≤600Ω)	18	Remote Resistance 0~350Ω (-1999~9999)
5	0~10V (RL≥4KΩ)	19	Remote Resistance 30~350Ω (-1999~9999)
K1	Relay contact output	20	0~20mV (-1999~9999)
K3	Single-phase SCR cross-zero trigger pulse output	21	0~40mV (-1999~9999)
K4	Solid State Relay driving voltage output	22	0~100mV (-1999~9999)
K6	Zero-phase SCR trigger pulse output	23	-20~20mV (-1999~9999)
		24	-100~100mV (-1999~9999)
⑤PID output 2		25	0~20mA (-1999~9999)
Code	Output type (Load resistance RL)	26	0~10mA (-1999~9999)
0	4~20mA (RL≤600Ω)	27	4~20mA (-1999~9999)
1	1~5V (RL≥250KΩ)	28	0~5V (-1999~9999)
2	0~10mA (RL≤1.2KΩ)	29	1~5V (-1999~9999)
3	0~5V (RL≥250KΩ)	30	-5~5V (-1999~9999)
4	0~20mA (RL≤600Ω)	31	0~10V (-1999~9999)
5	0~10V (RL≥4KΩ)	32	0~10mA square (-1999~9999)
K1	Relay contact output	33	4~20mA square (-1999~9999)
K3	Single-phase SCR cross-zero trigger pulse output	34	0~5V square (-1999~9999)
K4	Solid State Relay driving voltage output	35	1~5V square (-1999~9999)
K6	Zero-phase SCR trigger pulse output	55	Full switch
		56	Special specifications
⑥Rely output			
Code	Rely output		
X	No		
1	1 rely output		
2	2 rely outputs		
3	3 rely outputs		
4	4 rely outputs		
⑦Communication output			
Code	communication Interface / Three-phase thyristor zero-cros sing triggering pulseoutput		
X	No		

D1	RS-485 communication Interface (Modbus)
D2	RS-232 communication Interface (Modbus)
D3	RS-232C printer interface
Y1	External events input 1 (Force manual)
Y2	External events input 2
Y3	External events input 3
⑧Power distribution	
Code	Power distribution (output voltage)
X	No
1P	1 Power distribution
2P	2 Power distribution For example: "2P (12/24)" means Loop 1 is 12V, Loop 2 feeder output is 24V.
⑨Power supply	
Code	Voltage
A	AC/DC 100~240V (50/60Hz)
D	DC 20~29V



Supmea

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