



Thermo

Digital Controller

SHIMADEN

■ SRS11A / 12A / 13A /14A Series

BASIC FEATURES

- Multi-input and multi-range performance
- Small instrument depths (62mm-65mm) save space, thus securing a larger installation area.
- SV setting: 3 points
- PID Value: 3 types
- 2-output heating and cooling control available (optional)
- Total 32 steps Program available (optional) (1-4 pattern, 32-8 step)
- RS-485 Interface available (optional) (Master/slave function, Modbus/Shimaden Protocol)
- Heater break/heater loop alarm (optional)
- A wide selection of additional functions (optional) is available to suit various needs.
- Possible to switch off SV/PV value by key operation
- Parameter mask (non-display) / lock (key lock) function



ORDERING INFORMATION

ITEM	CODE		SPECIFICATIONS	
SERIES	SRS11A-		DIN 48x48 Digital Controller	
INPUT	8	Multi-input	Thermocouple: B, R, S, K, E, J, T, N, PLII, WRe5-26, {U, L (DIN43710)}, AuFe-Cr	
		Voltage (V)	R.T.D.: Pt100/JPt100 Voltage (mV): -10 - 10, 0 - 10, 0 - 20, 0 - 50, 0 - 100, 10 - 50mV DC -1 - 1, 0 - 1, 0 - 2, 0 - 5, 1 - 5, 0 - 10V DC Input resistance: Min. 500kΩ	Scaling Possible (inverse scaling impossible) Range: -1999 - 9999 Span: 10 - 10000
CONTROL OUTPUT 1	Y		Contact: 1a, Contact capacity: 240V AC 2A/resistive load Proportional cycle: 1 - 120 sec.	
	I		Current: 4 - 20mA DC Load resistance: 600Ω max.	
	P		SSR drive voltage: 12V±1.5V DC/30mA max. Proportional cycle: 1 - 120 sec.	
	V		Voltage: 0 - 10V DC Load current: 2mA max.	
CONTROL OUTPUT 2 (OPTION)	N-		None	
	Y-		Contact: 1a, Contact capacity: 240V AC 2A/resistive load Proportional cycle: 1 - 120 sec.	
	I-		Current: 4 - 20mA DC Load resistance: 600Ω max.	
	P-		SSR drive voltage: 12V±1.5V DC/30mA max. Proportional cycle: 0.5 - 120 sec.	
	V-		Voltage: 0 - 10V DC Load current: 2mA max.	
Additional event output		E-	Additional event output 1 point (EV3)	
Additional external control input signal (DI)		D-	Additional external control input 1 point (DI4)	
POWER SUPPLY	90-		100 - 240V AC±10%, 50/60Hz	
	08-		24V AC/DC±10%, 50/60Hz	
PROGRAM FUNCTION (OPTION)	N		None	
	P		Max. 4 patterns Total number of steps: 32	
EVENT OUTPUT (OPTION)	0		None	
	1		Event output 2 points (EV1, EV2)	
ANALOG OUTPUT/ COMMUNICATION FUNCTION (OPTION)	0		None	
	3		0 - 10mVDC Output resistance: 10Ω	
	4		4 - 20mADC Resistive load: 300Ω max.	
	6		0 - 10VDC Load current: 2mA max.	
	5		RS-485 (Shimaden standard protocol, MODBUS protocol)	
EXTERNAL INPUT CONTROL SIGNAL (DI)/ CT INPUT (OPTION)/ Note: CT sold separately	0		None	
	1		CT input 2 points	Note: Available only when control output 1 or 2 is Y or P.
	2		Control input 3 points (DI1, DI2, DI3)	
REMARKS	0		Without	
	9		With	



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ITEM	CODE		SPECIFICATIONS	
SERIES	SRS12A-		DIN 72x72 Digital Controller	
	SRS13A-		DIN 96x96 Digital Controller	
	SRS14A-		DIN 96x48 Digital Controller	
INPUT	8	Multi-input	Thermocouple: B, R, S, K, E, J, T, N, PLII, WRe5-26, {U, L (DIN43710)}, AuFe-Cr R.T.D.: Pt100/JPt100 Voltage (mV): -10 – 10, 0 – 10, 0 – 20, 0 – 50, 0 – 100, 10 – 50mV DC	Scaling Possible (inverse scaling impossible) Range: -1999 – 9999 Span: 10 – 10000
	6	Voltage (V)	-1 – 1, 0 – 1, 0 – 2, 0 – 5, 1 – 5, 0 – 10V DC Input resistance: Min. 500kΩ	
CONTROL OUTPUT 1	Y		Contact: 1a, Contact capacity: 240V AC 2A/resistive load Proportional cycle: 1 – 120 sec.	
	I		Current: 4 – 20mA DC Load resistance: 600Ω max.	
	P		SSR drive voltage: 12V±1.5V DC/30mA max. Proportional cycle: 1 – 120 sec.	
	V		Voltage: 0 – 10V DC Load current: 2mA max.	
CONTROL OUTPUT 2 (OPTION)	N-		None	
	Y-		Contact: 1a, Contact capacity: 240V AC 2A/resistive load Proportional cycle: 1 – 120 sec.	
	I-		Current: 4 – 20mA DC Load resistance: 600Ω max.	
	P-		SSR drive voltage: 12V±1.5V DC/30mA max. Proportional cycle: 1 – 120 sec.	
	V-		Voltage: 0 – 10V DC Load current: 2mA max.	
	E-	Additional event output	Additional event output 1 point (EV3)	
	D-	Additional external control input signal (DI)	Additional external control input 1 point (DI4)	
POWER SUPPLY	90-		100 – 240V AC±10%, 50/60Hz	
	08-		24V AC/DC±10%, 50/60Hz	
PROGRAM FUNCTION (OPTION)	N		None	
	P		Max. 4 patterns Total number of steps: 32	
EVENT OUTPUT (OPTION)	0		None	
	1		Event output 2 points (EV1, EV2)	
ANALOG OUTPUT (OPTION)	0		None	
	3		0 – 10mVDC Output resistance: 10Ω	
	4		4 – 20mADC Resistive load: 300Ω max.	
	6		0 – 10VDC Load current: 2mA max.	
CT INPUT (OPTION)/ Note: CT sold separately	0		None	
	1		CT input 2 points	Note: Available only when control output 1 or 2 is Y or P.
EXTERNAL INPUT CONTROL SIGNAL (DI) (OPTION)	0		None	
	2		Control input 3 points (DI1, DI2, DI3)	
COMMUNICATION FUNCTION (OPTION)	0		None	
	5		RS-485 (Shimaden standard protocol, MODBUS protocol)	
REMARKS	0		Without	
	9		With	