



SRF206/212/224

Smart Recorders, 6/12/24-Dot Printing Models

The SRF206/212/224 are high-performance 6/12/24-dot printing chart recorders that uses a chart 180mm wide. DC voltage, thermocouple, resistance temperature detector (RTD), communications and ON/OFF can be applied as input signals.

Options include event outputs, external contact inputs, chart illuminating lamp and communications.



Specifications

General	Power	100 to 240Vac, 50/60Hz
	Power consumption	Approx. 50VA (100VA max.)
	Ambient temperature	0 to 50°C
	Ambient humidity	30 to 90% RH (no condensation allowed)
Input	Mass	Approx. 7 to 8kg
	Type	DC voltage: mV, V Thermocouple: R, S, B, K, E, J, T, N, WRe0-26, WRe5-26, PR40-20, PLII, Ni-NiMo RTD: Pt100, JPt100, JPt150, Ni508
	No. of channels	6/12/24
	Input measuring period	6/12 models: 15s, 24 models: 30s.
Display	PV bias	-19999 to +29999
	Display system	8-digits, 7-segment LEDs (+ 2 green LEDs)
	Display period	4s/point
	Display contents	Measuring value, channel number, alarm display, date, time, chart feeding speed and other configuration data
Recorder	Chart form	Folding system
	Character construction	Dot matrix
	Effective recording width	-1.8 to +181.8mm of calibration position (0%)
	Chart feeding speed	1 to 480mm/h, adjustable in 1 mm/h steps
Recording format	Recording accuracy	±0.5% FS
	Trend recording	PV value (analog); channel No.
	Trend + tabular recording	PV value (analog); channel No. or marker/time/chart feed speed/tag/unit/scale upper and lower limit values
	Trend + schedule demand recording	PV value (analog); channel No.
Event output	Number of set events	4 events can be set for each channel.
	Setting range	-19999 to 29999
	Differential	0 to 29999
	External switch inputs	4 points
Optional function	Relay outputs	6, 12
	Open collector outputs	12 + 3 (special outputs)
	Communications	RS-485, RS-232C

Accessories (sold separately)

Model No.	Description	
SLP-F20J20	Smart Loader Package	
		Application Range (example)
81407861-001	Folding chart, 100-section (10 units per box)	0 to 100%
81409978-002	Folding chart, 120-section (10 units per box) (recycled paper)	0 to 1200 (°C), 0 to 600 (°C)
81409978-003	Folding chart, 140-section (10 units per box) (recycled paper)	0 to 700 (°C), 0-14 (pH)
81409978-004	Folding chart, 80-section (10 units per box) (recycled paper)	0 to 400 (°C), 0 to 800 (°C)
81409978-005	Folding chart, 150-section (10 units per box) (recycled paper)	0 to 150 (°C), -50 to +100 (°C)
81409978-001	Folding chart (recycled paper), 100-section	0 to 100%
81407937-001	Clean paper chart, 100-section	For clean room, 0 to 100%
81407408-001	Ink ribbon cassette (1 unit)	
81401325	250Ω resistor (accuracy ±0.02%) (1 unit)	
81446642-001	250Ω resistor (accuracy ±0.05%) (2 units)	
81446643-001	Carrying handle kit	

Selection Guide I II III IV V VI VII Example: SRF212AS20100

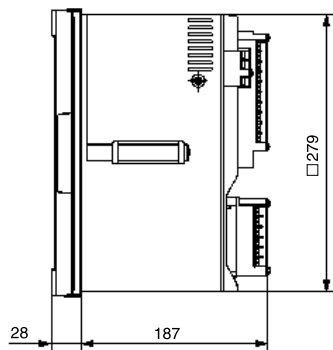
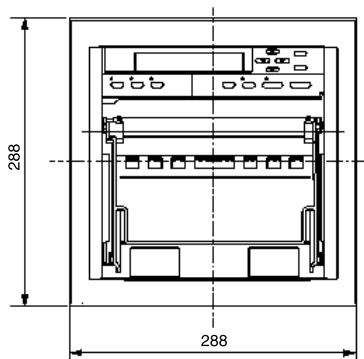
Segment	Model No. selection		Description
I	Basic No.	SRF206	180mm 6-dot recorder
		SRF212	180mm 12-dot recorder
		SRF224	180mm 24-dot recorder
II	Power	A	100 to 240Vac, 50/60Hz
III	Input	S	Full multi-input (standard)
IV	Option 1	0	None
		1	Relay outputs (6)
		2	Relay outputs (6) + external switch inputs (4)
		4	Relay outputs (12)
		5	Relay outputs (12) + external switch inputs (8)
		7	Relay outputs (12) + open collector outputs (12)
		8	Relay outputs (12) + open collector outputs (12) + external switch inputs (12)
V	Communications	0	None
		1	RS-485
		2	RS-232C
VI	Chart illumination lamp	0	None
		1	Provided
VII	Option 2	00	None
		D0	With inspection data
		T0	Tropicalization
		B0	Tropicalization + inspection data
		Y0	With traceability certification

Input Types and Ranges

Range code	Input type	Range (°C)	Range code	Input type	Range (°C)
00	mV	±20mV*	22	B	0.0 to 1820.0
01		±40mV*	23	K	-200.0 to +1370.0
02		±60mV*	24	E	-200.0 to +800.0
03		±200mV*	25	J	-200.0 to +1100.0
04	V	±2V*	26	T	-200.0 to +400.0
05		±5V*	27	N	0.0 to 1300.0
06		0 to 10V*	28	WRe0-26	0.0 to 2320.0
10	mV	±20mV	29	WRe5-26	0.0 to 2320.0
11		±40mV	30	PR40-20	0.0 to 1880.0
12		±60mV	31	PL II	0.0 to 1290.0
13		±200mV	32	Ni-Ni-Mo	0.0 to 1200.0
14	V	±2V	40	Pt100	-200.0 to +650.0
15		±5V	41	JPt100	-200.0 to +550.0
16		0 to 10V	42	JPt150	-200.0 to +550.0
20	R	0.0 to 1760.0	43	Ni508	-50.0 to +150.0
21	S				

* Indication range: -19999 to +29999.
°F display is selectable.

• SRF206/212/224



• Panel cutout

