SRF106

Smart Recorder, 6-Dot Printing Model

The SRF106 is a high-performance 6-dot printing chart recorder that uses a 100mm wide chart. DC voltage, thermocouple and resistance temperature detector (RTD) 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 15VA (30VA max.)
	Ambient temperature	0 to 50°C
	Ambient humidity	30 to 90% RH (no condensation allowed)
	Mass	3.4kg, 3.7kg (with additional functions)
Input	Type	DC voltage: mV, V Thermocouple: R, S, B, K, E, J, T, Nicrosil-Nisil, WRe0-26, WRe5-26, PR40-20, PLII, Ni-NiMo, Kp-Au7Fe RTD: Pt100, JPt100
	No. of channels	6
	Input measuring period	30s/6 points
	PV bias	-19999 to +29999
Display	Display system	7-digits, 7-segment LEDs (red and green)
	Display period	4s/point
	Display contents	Measuring value, channel number, alarm display, year/month/date, hour/minute, chart feeding speed and other configuration data
Recorder	Chart form	Folding system
	Trend recording period	30s/6 point
	Character construction	Dot matrix
	Effective recording width	-1.0 to +101.0mm of calibration position (0%)
	Chart feeding speed	2.5, 5, 10, 20, 40, 60, 120, 240mm/h, selectable
	Recording accuracy	±0.5% FS
Recording format	Trend recording	PV value (analog); channel No.
	Trend + tabular recording	PV value (analog); channel No.
	Trend + schedule Demand recording	PV value (analog); channel No.
Event output (option)	Output relay points	6
	Output operation	Up to 4 event operations set per channel, can be combined freely and OR output is available.
	Output form	Transfer contact (NC and NO contacts)
	Demand recording	250Vac/3A or 30Vdc/3A, min. 5Vdc/10mA
External contact input	Input points	4
	Function	RSW1: Recording start; RSW2: Demand (DMD) printing; RSW3: Chart feeding; RSW4: #1 to #4 Message printing
	Switching system	Alternate

Accessories (sold separately)

Model No.	Description	
SLP-F10J20	Smart Loader Package	
		Application Range (example)
81409977-004	Folding chart (recycled paper) (40-section) (10 units per box)	0 to 160, 0 to 200, 0 to 400, 0 to 800
81406088-001	Folding chart (standard paper) (50-section) (10 units per box)	0 to 100%
81409977-002	Folding chart (recycled paper) (60-section) (10 units per box)	0 to 30, 0 to 120, 0 to 300, 0 to 600
81409977-003	Folding chart (recycled paper) (70-section) (10 units per box)	0 to 14, 0 to 700, 0 to 1400, -20 to +50
81409977-005	Folding chart (recycled paper) (75-section) (10 units per box)	0 to 150, 100 to 250, 0 to 750
81409977-001	Folding chart (recycled paper) (50-section) (10 units per box)	0 to 100%
81407115-001	Clean paper chart (50-section) (10 units per box)	For clean room, 0 to 100%
81406107-001	Ink ribbon cassette (1 unit)	
81401325	250Ω resistor (accuracy ±0.02%) (1 unit)	
81446642-001	250Ω resistor (accuracy ±0.05%) (2 units)	
81446424-001	Carrying handle kit	

Selection Guide

I II III IV V VI VII Example: **SRF106AS21100**

Segment	Model No. selection		Description
I	Basic No.	SRF106	100mm, 6-dot printing recorder
II	Power	A	100 to 240Vac
III	Input	S	Full multi input (standard)
IV	Option 1	0	None
		1	6 event outputs
		2	6 event outputs, 4 remote switch inputs
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)
00	mV	±20mV*
01		±40mV*
02		±60mV*
03		±200m*
04	V	±2V*
05		±5V*
06		0 to 10V*
10	mV	±20mV
11		±40mV
12		±60mV
13		±200mV
14	V	±2V
15		±5V
16		0 to 10V
20	R	0.0 to 1760.0
21	S	

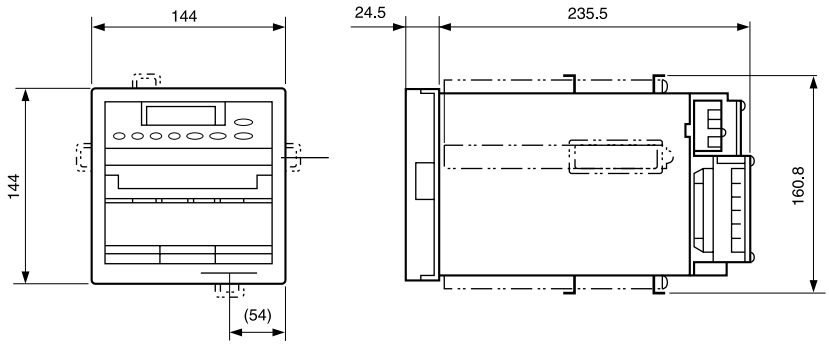
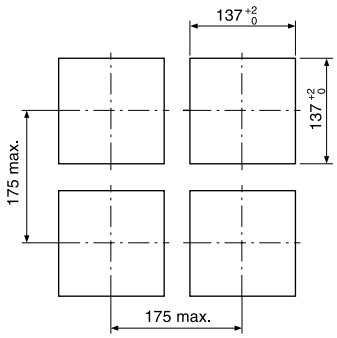
Range code	Input type	Range (°C)
22	B	0.0 to 1820.0
23	K	-200.0 to +1370.0
24	E	-200.0 to +800.0
25	J	-200.0 to +1100.0
26	T	-200.0 to +400.0
27	Nicrosil-Nisil	0.0 to 1300.0
28	WRe0-26	0.0 to 2320.0
29	WRe5-26	0.0 to 2320.0
30	PR40-20	0.0 to 1880.0
31	PL II	0.0 to 1290.0
32	Ni-Ni-Mo	0.0 to 1200.0
33	Kp-Au7Fe	0.0 to 300.0K
40	Pt100	-200.0 to +650.0
41	JPt100	-200.0 to +550.0

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

Dimensions

(Unit: mm)

• SRF106



• Panel cutout