

# Electronic self-balancing recorder



## SR-200 series

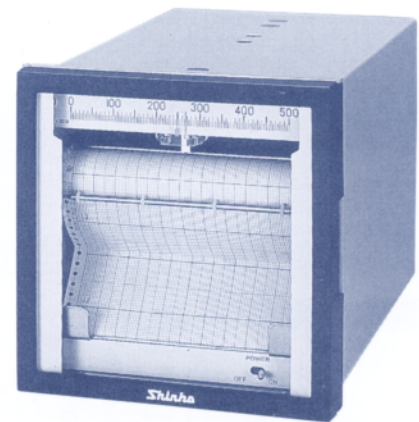
### ■ Features

- Simple structure and low malfunction rate.
- Accurately linearizes the scale.
- Multi-point version utilizes highly reliable input switch.

### ■ Model name

S R - 2 0 □ - □ , □ □ □		SR-200 series
Measuring point	1	1 point (Pen writing type)
	2	2 point (Pen writing type)
	6	6 point (Dot printing type)
Input	E	Thermocouple: K, R, J, T (Type to be specified)
	R	RTD: Pt100, JPt100 (Type to be specified)
	A	Current: 4 to 20mAdc
	V	Voltage: 0 to 10mVdc, 0 to 1Vdc
Options	L H	High and Low limit alarm actions
	C S □	Chart speed
	H D	Hand strap for portable type

When ordering, fill the blank □ from the type listed above.  
For option, enter the type after comma (,).



### ■ Rated scale

Thermocouple			RTD	Current, Voltage
K	J	T	Pt100	4 to 20mAdc, 0 to 10mVdc, 0 to 1Vdc
0 to 200°C ( 2°C)	0 to 200°C ( 2°C)	0 to 200°C (2°C)	-50 to 50°C ( 1°C)	-50 to 50°C ( 1°C)
0 to 300°C ( 5°C)	0 to 300°C ( 5°C)	0 to 300°C (5°C)	0 to 50°C (0.5°C)	0 to 50°C (0.5°C)
0 to 400°C ( 5°C)	0 to 400°C ( 5°C)	0 to 400°C (5°C)	0 to 100°C ( 1°C)	0 to 100°C ( 1°C)
0 to 500°C ( 5°C)	0 to 500°C ( 5°C)		0 to 150°C ( 2°C)	0 to 150°C ( 2°C)
0 to 600°C (10°C)	0 to 600°C (10°C)		0 to 200°C ( 2°C)	0 to 200°C ( 2°C)
0 to 800°C (10°C)			0 to 300°C ( 5°C)	0 to 300°C ( 5°C)
0 to 1000°C (10°C)				0 to 400°C ( 5°C)
0 to 1200°C (20°C)				0 to 500°C ( 5°C)
				0 to 600°C (10°C)
				0 to 800°C (10°C)
				0 to 1000°C (10°C)
				0 to 1200°C (20°C)

( ): Temperature for 1 scale

### ■ Standard specifications

Measuring point	1 point (SR-201), 2 point (SR-202), 6 point (SR-206)
Input	• Thermocouple: K, R, J, T (External resistance: 100Ω or less) • RTD : Pt100, JPt100 3-wire system • Current: 4 to 20mAdc • Voltage: 0 to 10mVdc, 0 to 1Vdc
Indicating/recording structure	Indicator : Self-balancing type Scale length: 100mm
Indicating/recording performance	Accuracy : Within ±0.5%FS Sensitivity : ±0.1%FS Balancing time : Within 1.6sec Indicating range: See rated scale
Recording method	SR-201, SR-202: Pen writing type, SR-206: Dot printing type
Ink color	SR-201: 1 (Red) SR-202: 1 (Red), 2 (Blue) SR-206: 1 (Purple), 2 (Red), 3 (Green), 4 (Indigo), 5 (Brown), 6 (Black)

# Shinko

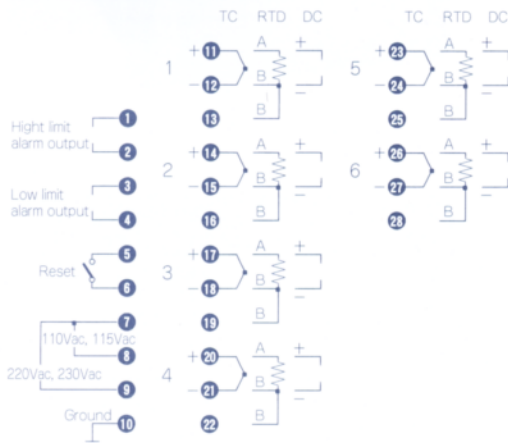
## Standard specifications

Printing interval	SR-206 : 50Hz: printing interval per dot is 5sec 60Hz: printing interval per dot is 4.2sec		
Chart speed	25, 50, 100mm/h (gear ratio changing method)		
Chart paper	Self-folding strip chart Effective width: 100mm, Full width: 113mm, Weight: 162g/box Full length: 10m (25mm/h: approx. 16 days, 50mm/h: approx. 8 days, 100mm/h: approx. 4 days)		
Supply voltage	Type is selectable • 110/220Vac 50/60Hz (Frequency is selectable by gear change) • 115/230Vac 50/60Hz (Frequency is selectable by gear change) Allowable voltage fluctuation: Within $\pm 10\%$ of supply voltage		
Power consumption	SR-201: Approx. 8VA	Insulation resistance	10M $\Omega$ or greater at 500Vdc
	SR-202: Approx. 14VA SR-206: Approx. 11VA	Dielectric strength	500Vac for 1 min between input terminal and ground terminal 1.5kVac for 1 min between power terminal and ground terminal 1.5kVac for 1 min between alarm terminal and ground terminal
Ambient temperature	0 to 50°C		
Ambient humidity	35 to 85%RH		
Mounting method	Flush or portable type	Material • Color	Front frame: Resin Color: Black Case : Steel board Color: Gray (Munsell N7.0)
Weight	SR-201: Approx. 3.6kg, SR-202: Approx. 4.8kg, SR-206: Approx. 4.5kg		

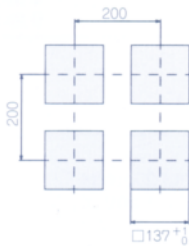
## Options

Alarm action [L H]	Action	: High and Low limit alarm actions
	Setting	: 1 input (However, for SR-202 type, setting only to the input No1, for SR-206 type, high and low limit setting common to every input.)
	Setting range	: 0~100%
	Setting accuracy	: Within $\pm 2\%$ FS
Chart speed [C S □]	Output	: Relay contact 1a $\times$ 2, 220Vac 2A (resistive), 220Vac 0.8A (inductive load $\cos \phi = 0.4$ ) Type SR-206 is provided with self-holding circuit.
	Chart speed is to be specified when ordering from:	
	• CS 25M: 25, 50, 100mm/min (Applicable to SR-201, SR-202)	
	• CS 12.5H: 12.5, 25, 50mm/h • CS 50H: 50, 100, 200mm/h • CS 100H: 100, 200, 400mm/h • CS 300H: 300, 600, 1200mm/h	
Hand strap for portable type [H D]	Easy to carry when this option is applied.	

## Terminal arrangement

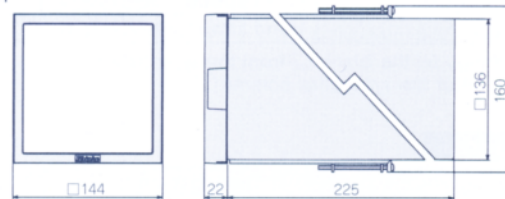


## Panel cutout drawing

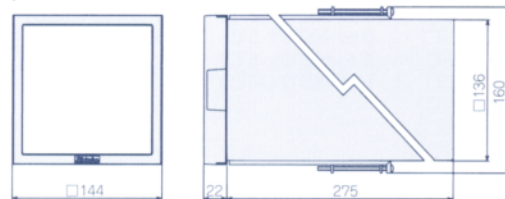


## External dimension drawing

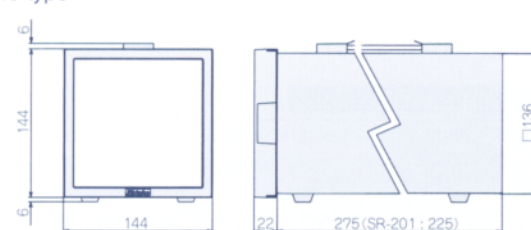
SR-201



SR-202, SR-206



Portable type



- This catalog is as of April 2004, specifications subject to change without notice.
- When inquiring, please contact your shop where purchased or our agency.

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