

# SRIDU

## Industrial Recorders

The SR10000 is a small compact industrial recorder with a recording width of 100 mm. The model family consists of 1, 2, 3, 4 pen and a 6 dot model. The SR10000 offers outstanding clear display of field data and reliability of recording data.

Bulletin BU04P03B01-01E

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# Includes a Full Set of Basic R

SR10000 is a new compact recorder, including basic recorder functions such as measurement, recording, and display offered by leading-edge technology. Operating efficiency is increased through easy-to-read data and ease of operation.

Large (10 x18 mm) LED display

Universal inputs

Robust, splash-proof design (IP54)

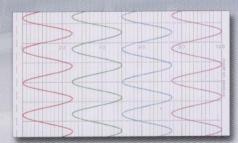
Network compatible



Actual Size: 144x144mm

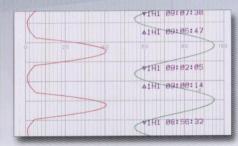
## Easy to Read and Easy to Operate Print and Record Functions

The SR10000 has variety functions such as pen offset compensation which compensates for the pen offset (phase difference) along the time axis, printing functions (message, alarm, and periodic printout), zone recording, and partial expanded recording.



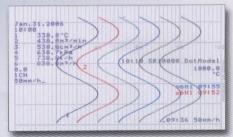
Zone recording

Lets you set a distinct analog recording zone for each channel.



Partial expanded recording

Lets you expand the section of recording range to record detail.



Message printout

Lets you write the pre-registered messages.

## ecorder Functions



## Introducing the 4 Pen Model

Provides 1, 2, 3, 4 pen model and 6 dot model.

### Large, Vivid LED Display

SR10000 displays data for easy viewing on a large display (10x18mm/segment), allowing the on-site operators to immediately check the operational status of equipment.

Channel No. display

Alarm type display

Recording in progress

Alarm indicator

5-digit measured value display



## Easy, Interactive Configuration

Parameters are easily configured using the SR10000's display keys. For example, when setting the input range, the channel number, range type, and span are configured in order using the Menu key, arrow keys  $(\uparrow \rightarrow \downarrow)$ , and the  $(\downarrow)$  key. Parameter configuration using PC software

Parameter configuration, saving of settings, and downloading of settings can be performed on a PC.

## The high reliability demanded for industrial recorders

The SR10000's popularity is a testimony to its high reliability, made possible with the latest technology.

- Fully contact-less technology

Actuators reduced in size through high

precision manufacturing High degree of integration using custom ICs

- Dust-and splash proof front door (conforms to IP 54)



## Convenient Components Offer Ease of Operation

Provides an easy-to-use disposable felt-pen cartridge (for pen model) and ribbon cassette (for dot model)

The chart cassette is equipped with a chart ejection function. You can write memos on the chart and check the historical trend during recording

## **Specifications**

See the general specifications (GS04P03B01-01E) for more details

### Input section

Measurement points: 1-4 pens, 6 dots

Input type:

Universal input DCV: 20 mV, 60 mV, 200 mV, 2 V, 6 V, 20 V, 50 V TC\_: R, S, B, K, E, J, T, N, W, L, U, W3re/W25re

RTD: Pt100
DI: Voltage input (TTL), contact input
DCA: Direct current input (with external shunt register)

Measurement intervals

Pen models 125 ms

Dot models; 1 s/6 points, 2.5 s/6 points

Computation: Differential computation, linear scaling, square root, bias addition

#### Recording section

Effective recording width: 100 mm

Recording period:

Pen model: Continuous for each channel Dot model: 6 ch/10sec

(the shortest recording period)

#### Display section

Display method: LED array display (2 small and

5 large digits, each comprising 7 LED segments)

Display types: Channel No., alarm type, measured value, date/time etc. Status display: Recording in progress, shared

alarm display

#### Alarm function

Number of levels: 4 levels per channel

: Higher/lower limit, differential higher/lower limit Type of alarm

#### Optional functions

Alarm output relay (2, 4, 6 points), remote control, expansion inputs, AC/DC24V power supply, calibration correction communication interface (RS-422A/485 or Ethernet), and

#### Construction

Front panel: Water- and dust-proof (based on IEC529-IP54)
Dimensions: 144 (W) x 144 (H) x 233 (D) mm
Weight: 2.1 kg-2.5 kg

#### Power supply

100 to 240 VAC. automatically selected

Rated frequency Power consumption: 18 VA (In balance),

maximum 40 VA

#### Model Codes

Model code	Suffix code	Option code	Description			
SR10001			1 pen recorder			
SR10002 SR10003 SR10004			2 pen recorder			
			3 pen recorder			
			4 pen recorder			
SR10006         6 dot recorder           -2         English         deg F, DST (summer/winter time)			6 dot recorder			
Option		/A1	Alarm output relay (2 contact)*1	Enables detection of abnormal value using the following alarm type:		
		/A2	Alarm output relay (4 contact)*1	high/low limit, differential high/low limit		
		/A3	Alarm output relay (6 contact)*1			
		/CC1	Calibration correction	Corrects Input value with linearization. Number of setting points: 2-16 points		
		/C3	RS-422/485 Communication interface*2	Supports Modbus protocol (RTU SLAVE)		
		/C7	Ethernet communication interface*2	10Base-T		
		/D6	Green display	Green color for LED display		
		/N1	Cu10, Cu25 input	Enables Cu10 (6 types such as GE, L&N and more) and Cu25 input in additio to the standard inputs.		
		/N3	Expansion inputs	Enables 14 types of input such as Pt50, PR40-20, PLATINEL inputs in addition to the standard input types.		
		/P1	24V DC/AC power supply	Operating power supply voltage range: 21.6-26.4VDC		
		/R1 Remote control		The following operations can be performed using contact input.  Record start/stop, switching chart speed, message print, manual print		

<sup>\*1: /</sup>A1, /A2, /A3 cannot be specified together.
\*2: /C3, /C7 cannot be specified together.

**Application Software** 

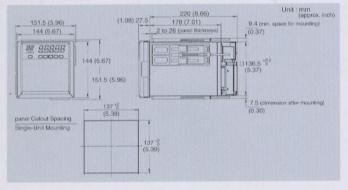
Model	Description	OS	
RXA10-01	RXA10 configuration software	Windows 2000/XP	Enables parameter setting, saving/loading of settings.
RXA10-02	RXA10 configuration software (with interface unit)	Windows 2000/XP	

Note Support for RXA10 configuration software is phased in.

#### Standard Accessories

Name		1 pen	2 pen	3 pen	4 pen	6 dot
Z-fold chart	1	1 -	1 -	1	1	
6 color ribbon o						
Disposable	Red	1	1	1	1	-
felt pen	Green	-	1	1	1	-
cartridge	Blue		-	1	1	-
	Violet		-	-	1	-
Plotter pen	Purple	1	1	1	1	
Mounting bracket		2	2	2	2	2
User's Manual	1 -	1	1	1	1	
User's Manual (Operation Guide)		1	1	1	1	1

#### **Dimensions**



### Spare Parts/Optional Accessories

N	ame	Model code (part number)	Specification 10 (Sales unit) 1 (Sales unit) 1 (Sales unit, 3 pieces/unit)	
Z-fold chart		B9565AW		
6 color ribbon o	cassette	B9901AX		
Disposable	Red	B9902AM		
felt pen	Green	B9902AN	1 (Sales unit, 3 pieces/unit)	
cartridge	Blue	B9902AP	1 (Sales unit, 3 pieces/unit)	
	Violet	B9902AQ	1 (Sales unit, 3 pieces/unit)	
Plotter pen	Purple	B9902AR	1 (Sales unit, 3 pieces/unit)	
Mounting brack	cet	B9900BX	2 (Sales unit)	
		4159 20	250 Ω ±0.1%	
Shunt resister		4159 21	100 Ω ±0.1%	
		4159 22	10 Ω ±0.1%	





Ribbon cassette

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- Before operating the product, read the instruction manual thoroughly for proper and safe operation.
- If this product is for use with a system requiring safeguards that directly involve personnel safety, please contact the Yokogawa sales offices.

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#### YOKOGAWA ELECTRIC CORPORATION

Network Solutions Business Div./Phone: (81)-422-52-7179, Fax: (81)-422-52-6619

E-mail: ns@cs.jp.yokogawa.com

YOKOGAWA CORPORATION OF AMERICA YOKOGAWA EUROPE B.V.

YOKOGAWA ENGINEERING ASIA PTE. LTD.

Phone: 800-888-6400, Fax: (1)-770-251-6427 Phone: (31)-33-4641806, Fax: (31)-33-4641807

Phone: (65)-62419933, Fax: (65)-62412606

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