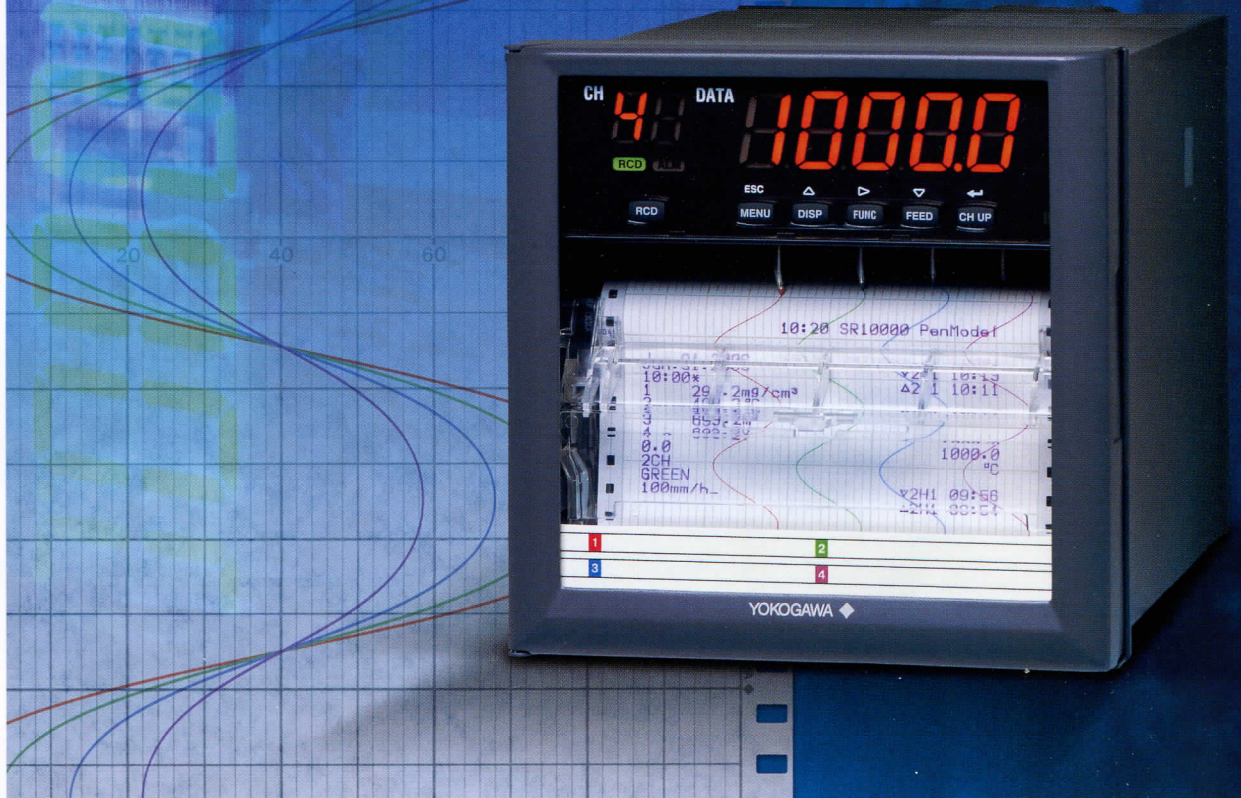


Industrial Recorders SR10000



SR10000

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 04P03B01-01E

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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)**

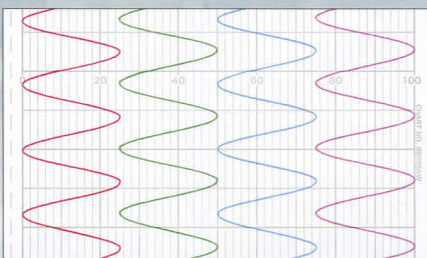
**Network
compatible**



Actual Size: 144x144mm

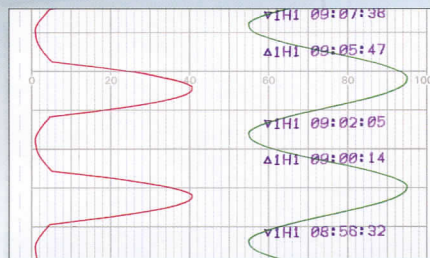
Easy to Read and Easy to Operate Print and Record Functions

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.



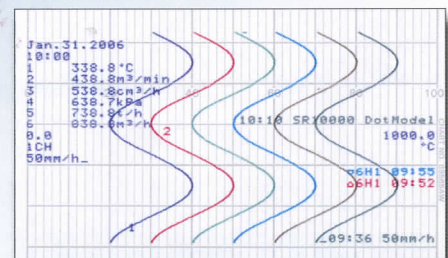
Zone recording

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.

Recorder 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



Menu key

Arrow key

ENT key

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 (ENT) 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

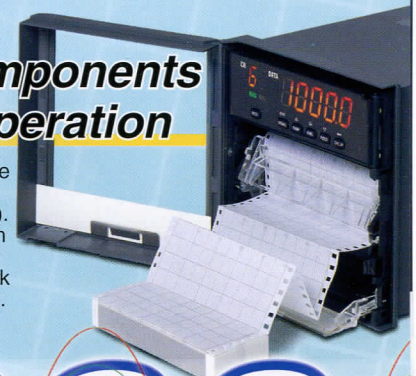
The SR10000's popularity is a testimony to its high reliability, made possible with the latest technology.

- 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.



Industrial Recorders SR10000

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, 1-5 V

TC : R, S, B, K, E, J, T, N, W, L, U, WRe

RTD : Pt100, JPt100

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

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

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), Header printout and others.

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

Rated voltage : 100 to 240 VAC, automatically selected

Rated frequency : 50/60 Hz

Power consumption: 18 VA (In balance), maximum 40 VA

RCD

MENU

DISP

FUNC

FEED

CH UP

Model Codes

Model code	Suffix code	Option code	Description	
SR10001			1 pen recorder	
SR10002			2 pen recorder	
SR10003			3 pen recorder	
SR10004			4 pen recorder	
SR10006			6 dot recorder	
	-2		English	deg F, DST (summer/winter time)
Option		/A1	Alarm output relay (2 contact)*1	Enables detection of abnormal value using the following alarm type: high/low limit, differential high/low limit
		/A2	Alarm output relay (4 contact)*1	
		/A3	Alarm output relay (6 contact)*1	
		/BT1	Header printout	Enables to print "Batch name and comment etc" in recording start/stop. R1 option allows you to execute functions of /BT1 easily by a contact input.
		/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 addition 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 etc	

*1: /A1, /A2, /A3 cannot be specified together.

*2: /C3, /C7 cannot be specified together.

Application Software

Model	Description	OS	
RXA10-03	RXA10 configuration software	Windows 2000/XP	Enables parameter setting, saving/loading of settings.
RXA10-04	RXA10 configuration software (with interface unit)	Windows 2000/XP	

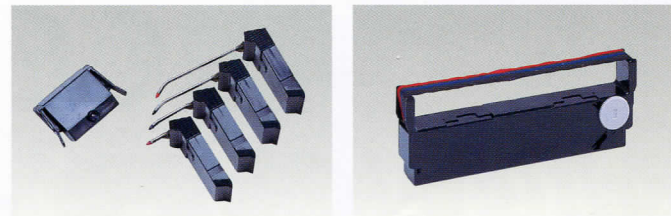
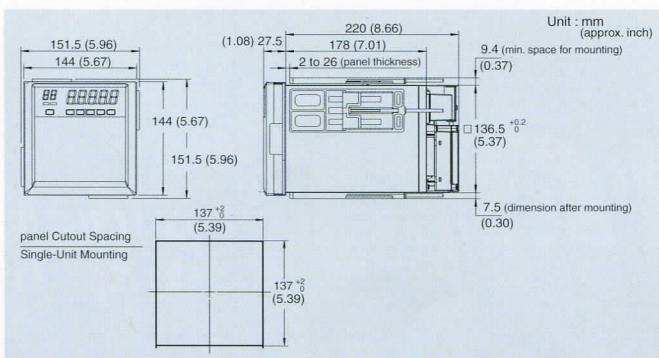
Standard Accessories

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

Spare Parts/Optional Accessories

Name	Model code (part number)	Specification	
Z-fold chart	B9565AW	10 (Sales unit)	
6 color ribbon cassette	B9901AX	1 (Sales unit)	
Disposable felt pen cartridge	Red	B9902AM	1 (Sales unit, 3 pieces/unit)
	Green	B9902AN	1 (Sales unit, 3 pieces/unit)
	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 bracket	B9900BX	2 (Sales unit)	
	4159 20	250 Ω ±0.1%	
	4159 21	100 Ω ±0.1%	
Shunt resistor	4159 22	10 Ω ±0.1%	

Dimensions



Pen Plotter pen

Ribbon cassette

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NOTICE

- 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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