



Intelligent Industrial Recorders

The μ R series are the compact industrial recorders with the recording widths of 100 mm and 180 mm. The 100 mm family consists of 1,2,3,4-pen and 6-dot models. The 180 mm family consists of 1,2,3,4-pen and 6,12,18,24-dot models.

Bulletin 04P02B01-01E

www.yokogawa.com/ns/



YOKOGAWA 🔶



The Information You Need: Easier to Acquire, Easier to Read μR20000 (4 pen model)

2000.0 °C ЯZ.

RECORD

18:41 4

89.04



intensity white LED)

- dot models)
- Universal input



Multiple Functions Meet a Variety of Needs

- Broad lineup (1-, 2-, 3-, or 4-pen models, and 6-, 12-, 18-, or 24-
- Dot model (6-dot model) achieves one second measurement intervals • Supports a wide range of input sensors
- Supports 35 types of input including optional TC, RTD.
- Mathematical functions
- No. of Mathematical channels: 8 channels (Pen models), 12 channels (µR10000 dot model), 24 channels (µR20000 dot models)
- Computation types: Arithmetic, logic, relation and static computations
- Recording: Pen model: Assignable to any pen, Dot model: Fully recordable Supports Ethernet or RS-422A/485 interfaces

Delivers Confidence

The critical factor in continuous recording using industrial recorders is reliability. Leveraging the latest technology, Yokogawa brings you that reliability in a compact, lightweight unit that embodies all the breakthroughs and know-how that Yokogawa has cultivated over the years.

Bringing You the Highest Reliability

Servo Unit

The pen servo unit takes advantage of an ultra-small, rack-and-pinion stepping motor. The servo unit is smaller and consumes less power than previous models

Splash-proof Front Door (conforms to DIN 40050-IP54) The front door meets DIN 40050-IP54 standards in panel-mount installations

Safety/EMC Standards Yokogawa's highly reliable industrial recorders support safety and EMC (electromagnetic compatibility) standards. And of course, the μR conforms to the European CE marking standard.



6 dot model



Optional Terminals*

Individual terminals are removable, making wiring and maintenance easy.

Input Terminals*

Ethernet (10Base-T) Data management possible via network.



Lightweight

Innovative molding technology reduces the number of parts and lowers the

weight of the unit. Higher efficiency and low heat emissions have also been achieved through a high degree of integration and a new type of servo

(EMI testing LAB in Yokogawa)

INTELLIGENT INDUSTRIAL RECORDERS

High-Voltage Solid State Scanners

High withstand voltage semiconductor relays have been adopted for scanners that switch the input signal. They enable high speed scanning of six dots per second, increase the life of the scanner, and reduce

Use of ASICs

The recorders feature a high degree of functional integration through Yokogawa's renowned ASICs (application specific integrated circuits, or custom ICs). They allow for reduced power consumption, increased lifespan of components, and suppressing of heat emmisions.

Matching the Displayed Operation Screen to the Application

The user can switch between up to fifteen previously configured operation screens using the DISP key.



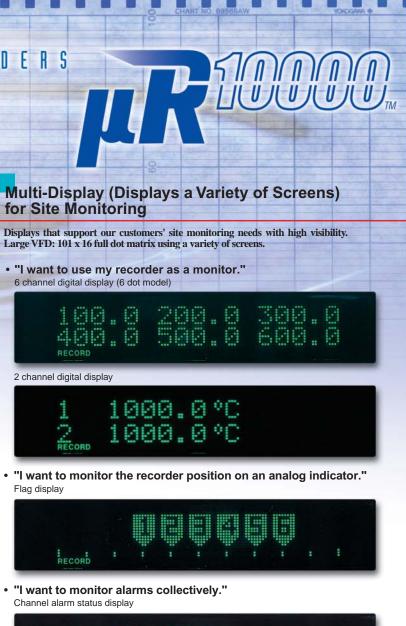
Navigational Display Makes Setup a Snap

The instrument features a simple configuration, with Operation mode for normal use, and Setting mode for use during setup. In Operation mode, measured values, time, and alarms are updated, and lists are printed. In

	-, at =killi-								
				ALARM			ľ		
	CHARACTER	DISP		ESC/?	SHIFT	CH UP			

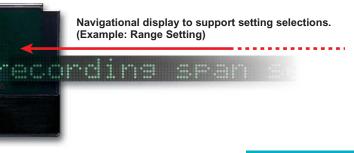
Easier to Acquire, Easier to Read

Uses a large, easy-to-view VFD 101 x 16 full dot matrix display. All settings are interactive, and supported by the navigational display, offering easier to read selections and superior ease of operation.





Setting mode, you can enter measuring ranges, alarm values, and other parameters. Also, Setting mode offers a navigational display that eases entry of settings



Delivers Confidence

The critical factor in continuous recording using industrial recorders is reliability. Leveraging the latest technology, Yokogawa brings you that reliability in a compact, lightweight unit that embodies all the breakthroughs and know-how that Yokogawa has cultivated over the years.

Bringing You the Highest Reliability

Servo Unit

The pen servo unit takes advantage of an ultra-small, rack-and-pinion stepping motor. The servo unit is smaller and consumes less power than previous models.

> Splash-proof Front Door (conforms to DIN 40050-IP54)

The front door meets DIN 40050-IP54 standards in panel-mount installations.

High-Voltage Solid State Scanners

High withstand voltage semiconductor relays have been adopted for scanners that switch the input signal. They enable high speed scanning of six dots per second or twelve to twenty-four dots in 2.5 seconds, increase the life of the scanner, and reduce noise

Use of ASICs

The recorders feature a high degree of functional integration through Yokogawa's renowned ASICs (application specific integrated circuits, or custom ICs). They allow for reduced power consumption, increased lifespan of components, and suppressing of heat emmisions

Safety/EMC Standards

Yokogawa's highly reliable industrial recorders support safety and EMC (electromagnetic compatibility) standards. And of course, the μ R conforms to the European CE marking standard.

24 dot model

Lightweight

Innovative molding technology reduces the number of parts and lowers the weight of the unit. Higher efficiency and low heat emissions have also been achieved through a high degree of integration and a new type of servo unit

Matching the Displayed Operation Screen to the Application

The user can switch between up to fifteen previously configured operation screens using the DISP key.

ARACTER	$\nabla \Delta$	
MENU	DISP	•)) FUNC

Optional Terminals*

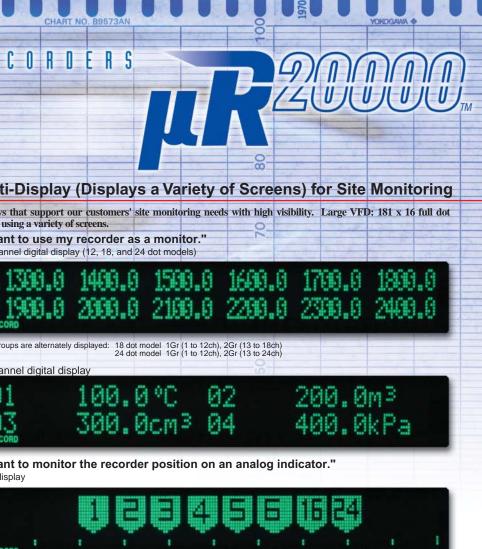
Individual terminals are removable, making wiring and maintenance easy

Input Terminals*

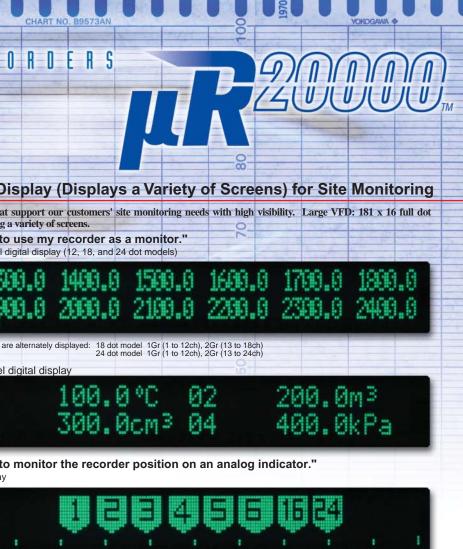
Ethernet (10Base-T) Data management possible via network.

INTELLIGENT INDUSTRIAL RECORDER

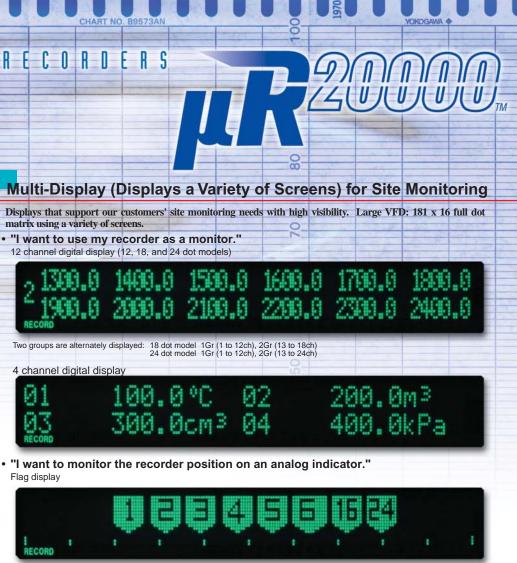
matrix using a variety of screens.



4 channel digital display



Flag display



 "I want to monitor alarms collectively." Channel alarm status display



Navigational Display Makes Setup a Snap

The instrument features a simple configuration, with Operation mode for normal use, and Setting mode for use during setup. In Operation mode, measured values, time, and alarms are updated, and lists are printed. In Setting mode, you can enter

Navigational display to support setting selections (Example: Range Setting)



Easier to Acquire, Easier to Use

Uses a large, easy-to-view VFD 181 x 16 full dot matrix display. All settings are interactive, and supported by the navigational display, offering easier to read selections and superior ease of operation.





measuring ranges, alarm values, and other narameters. Also, Setting mode offers a navigational display that eases entry of settings.

INTELLIG **Broad** Functionality for Wide Range of **Applications** The instrument comes with a full set of functions to cover the many needs of our customers and support their applications. Variety of Networking Functions Ethernet Support By using DAOLOGGER* with the DX, DARWIN, or other instruments on your existing network, DAO you can manage measured data centrally. LOGGER (GateµR software required for the µR, sold Internet separately). Also, using DAQLOGGER's event **E-mail Notification** processor, you can automatically send Alarm information •Fixed time instantaneous values information when Event/Report data occurs (alarms, time, file creation, etc.) via e-mail or Report data FTP. Analog line/ ISDN/ dedicated line/ packet network Ethernet PS: ADDA µ**R**20000 DAQSTATION Serial Communications R10000/µR20000 Gate DX100/DX200 Comes with RS-422A/485 The Modbus protocol (RTU, SLAVE) is also supported. DARWIN uR10000 UT/UP FTP Server Multi Drop Connection

Application Software That Expands the Possibilities of the μR

DAQLOGGER* Highly Reliable Data Logging Software

DAQLOGGER lets you build a realtime data logging environment with up to thirty two of our main recorders, data acquisition instruments, and controllers, on up to sixteen hundred channels.



Monitor Software

Displays measured and computed data on the PC screen in real time. Enables construction of an optimal monitoring environment.

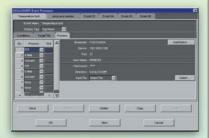


E-mail Transmission Sends e-mail messages upon occurrence of events. You can also attach data, reports, instantaneous values, or monitor screens to e-mails.

* Support for the $\mu R20000$ will be offered in phases.



Viewer Software Lets you easily redisplay, analyze, and convert logged data, and print waveforms.



FTP Client Function You can have data files and reports automatically sent by FTP to a file server when they are created

RXA10 Configuration Software (sold separately)

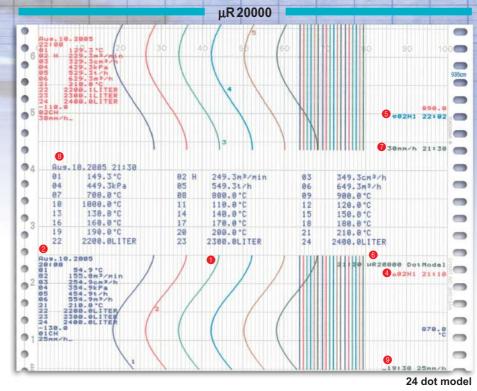
Entry and management of settings for measurement and calculation channels is easier than ever. Also, settings can be entered via communication interface.



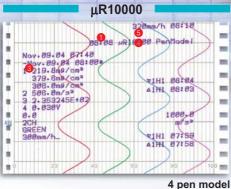
INDUSTRIAL RECORDERS I

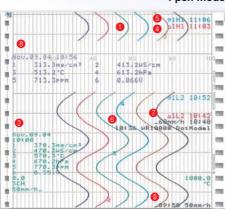
A Wealth of Recording and Printing Functions

CEDIEC CENIEC

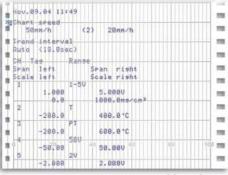








6 dot model





8 Report printout *

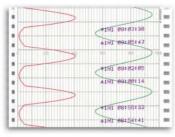
6 Alarm printouts (cleared)



- 4 Alarm printouts (occurring)
- 6 Message printouts
- 8 Manual printout
 - Ohart start time printout
- *: In Set mode, you can select periodic printout, report printout, or "None."

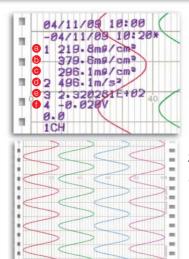
Select from the following report printout contents: AVE (average) by channel only, MIN (minimum) only, MAX (maximum) only, MIN/MAX/AVE, SUM, or INST (instantaneous value)

Chart speed change printout



Partial expanded recording Any important portion within the full

scale can be expanded for recording

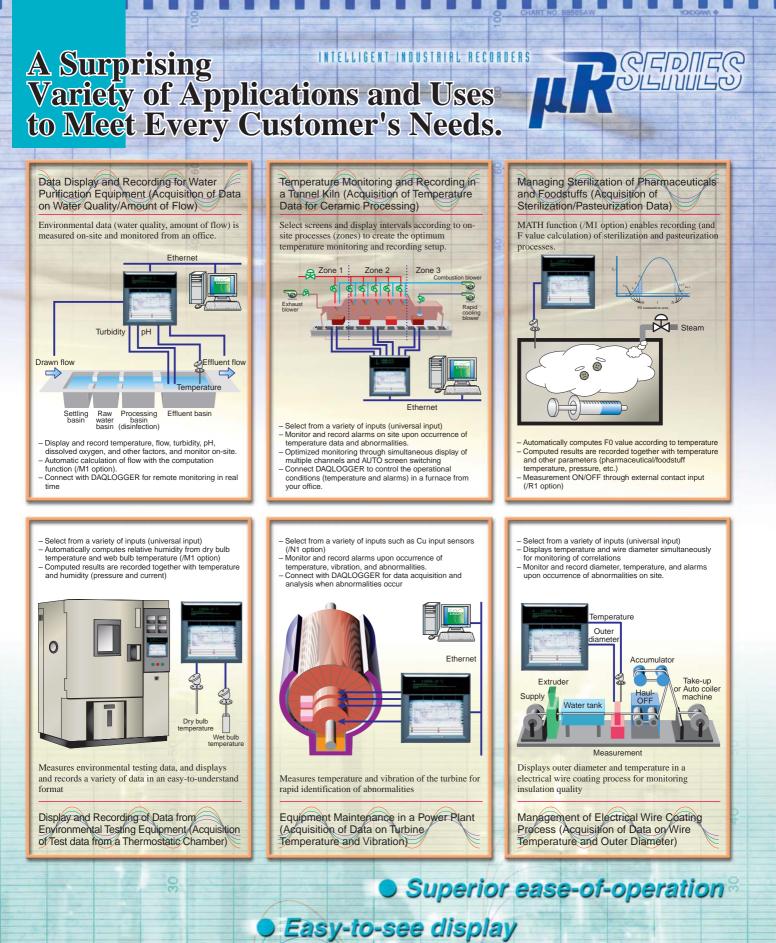




List printout

Zone recording

Recording areas (zones) for each channel can be recorded separately.



Accurate measurement

Reliable recording

45302

3

Supports our customers' site monitoring needs. Offers optimal solutions and a user-friendly operating environment.

10

Specifications

(Approx)

See the general specification (GS04P01B01-01E, GS04P02B01-01Ē) for the detailed specifications.

Input

- Measurement Inputs
- $\mu R10000;$ 1, 2, 3, 4 (pen) and 6 (dot) points $\mu R20000;$ 1, 2, 3, 4 (pen) and 6, 12, 18, 24 (dot) points
- Inputs
- Universal input

- The set of Measurement Interval
- $\begin{array}{c} \text{Dick. Direct al} \\ \textbf{Measurement Interval} \\ \text{Pen model-125 ms/channel} \\ \text{Dot model-} \mu R10000: 1 s/6 dot or 2.5 s/6 dot \\ \mu R20000: 1 s/6 dot, 2.5 s/12 to 24 dot or 2.5 s/6 dot, 5 s/12 dot, \\ 10 s/18 to 24 dot \\ \hline \end{array}$

Burnout

Available on TC and 1-5 VDC range, ON/OFF selectable (per channel) 1-5V Burnout: less than 0.2V

Filter

- Pen model: Signal damping ON/OFF selectable (per channel), Time constant (2, 5, 10sec) Moving average ON/OFF selectable (per channel), Moving average cycle (2 to 16) Dot model:
- Standard Computation Differential computation, Linear scaling, Square root, Bias addition

Recording and Printing

Recoring Method

- Pen model: Disposable felt pens, Plotter pen, Dot model: 6 color wire dot
- Pen Offset Compensation: ON / OFF selectable (Pen model only)

- Effective Recording Width
 μR10000: 100 mm, μR20000: 180 mm
 Chart μR10000: Plain-paper Z-fold chart (16 m)
 μR20000: Plain-paper Z-fold chart (20 m)

- μR20000: Prain-paper 2-100 chart (20 m)
 Recording Period
 Pen model: Continuous for each channel
 Dot model: μR10000; Max. 6 ch/10 sc, 7 to 12 ch/15 s. 13 to 18 ch/20 s, 19 to 24/30 s
- Chart Speed Pen model: 5 to 12000 mm/h (82 increments) Dot model: 1 to 1500 mm/h (1 mm step)

- Chart Speed Change speed 1, speed 2 change by remote control signals (option).
- Recording Colors Pen model: pen1=re pen1=red, pen2=green, pen3=blue, pen4=violet, plotter pen=purple Dot model: µR10000
 - ch1=purple, ch2=red, ch3=green, ch4=blue, ch5=brown, ch6=black (color can be assigned to any channel) $\mu R20000$
 - ch1, 7, 13, 19=purple ch2, 8, 14, 20=red ch3, 9, 15, 21=green ch4, 10, 16, 22=blue ch5, 11, 17, 23=brown ch6, 12, 18, 24=black (color can be assigned to any channel)
- Recording Format
- Acalog recording: Zone recording, Partial expanded recording Digital printout: Channel number or TAG (Dot model only), Alarm, Periodic printout or Report printout, Message printout, Record start time, Chart speed printout, List printout, Manual printout, SET UP List printout Digital printout:

Display

- Display Method
- μR10000: VFD (101×16 dot matrix), μR20000: VFD (181×16 dot matrix) Display Types Multiple displays
- Digital, bar, flag, DI/DO display etc. can be displayed. 15 display types can be selected from approx. 80 display types.
- Status Display
- Recording in progress (RECORD), Shared alarm (ALARM), Channel No. display of occuring alarm (pen model: 1 2 3 4 or Dot model: μ R10000; 1 to 6, μ R20000; 1 to 24), Chart end display (CHART END) For the model with option (FAIL/chart end detection and output), Math (MATH), Key lock display (KEY LOCK)
- Setting
- Settings display by interactive mode. In setting, navigator method is used. Display updated interval can be selected from AUTO/MAN.
- Bar Gragh Display Measurment value: left/right (%) reference or center zero reference display
- (each channel selectable). Alarm: Alarm setting level display and flashing display of occuring alarm.
- Display Brightness Setting Display brightness level: 1 to 8

Alarm

- Number of Levels: Up to 4 level for each channel.
- Alarm Type High and low limits, differential high and low limits, high and low rate-of-change limits and delay high and low Interval time of rate-of-change alarms: The measurement interval times 1 to 15

- Display
- Set value is indicated as a point on the bar gragh (only for bar gragh display) In case of an alarm: For digital display: Alarm type indicator
- Shared alarm display Alarm occuring channel No. is displayed For bar gragh display: Flashing point indicator

Power supply

- Rated Power Voltage: 100-240 VAC (automatically selected)
- Power Voltage Range: 90-132 VAC, 180-264 VAC
 Rated Power Flequency: 50 Hz/60 Hz (sutomatically selected)

Power Consumption

		(/ (pprox.)					
100 VAC power source	240 VAC power source	Maximum					
12 VA*	17 VA*	40 VA					
13 VA*	18 VA*	40 VA					
* In balance (Approx.)							
100 VAC power source	240 VAC power source	Maximum					
17 VA*	25 VA*	55 VA					
17 VA*	23 VA*	55 VA					
	power source 12 VA* 13 VA* 100 VAC power source 17 VA*	power source power source 12 VA* 17 VA* 13 VA* 18 VA* 100 VAC 240 VAC power source 17 VA* 17 VA* 25 VA*					

* In balance

General Specification

- Ambient Temperature and Humidity 0 to 50°C, 20 -80%RH (at 5 to 40°C)
- Memory Backup
 - Litium battery to save settings parameters Approx. 10 years (at room temperature, for standard model)
- Settings Protection Function Password method
- Internal Light
- White LED
- Operation Position 0° Frontwards: Within 30° from horizontal
- **Optional Specification**

- Alarm output relay (/A1, /A2, /A3, /A4*, /A5*) Number of output: 2, 4, 6, 12*, 14* Relay contact rating: 250 VDC/0.1 A (resistance load), 250 VAC (50/60 Hz) /3 A *only for μR20000
- RS-422A/485 communication interface (/C3) Measurment value output and setting parameter input/output Conforms to EIA-422A (RS-422A) and EIA-485 (RS-485) standard
- Ethernet communication interface (/C7) Measurment value output and setting parameter input/output Transmission media:10 Base-T
- FAIL/chart end detection and output (/F1)
 In CPU error occurrence or the chart end, output relay is activated. Relay contact rating: 250 VDC/0.1 A (resistance load), 250 VAC (50/60 Hz) /3 A
 Clamped input terminal (/H2): Clamped input

- Clamped input terminal (/H2): Clamped input Non-glare door glass (/H3) Non-glare door glass for front door Portable Type (/H5[]) Provides carrying handle and power code Mathematical function (/M1) Number of computation channel: 8 channels (pen model), 12 channels (µR10000 dot model), 24 channels (µR20000 dot model) Arithmetic operation (+, \neg , x, +), Square, Absolute, Common logarithm (y=log10x), Exponential (eX), Power (Xn), Relational operator (<, \leq , \geq , =, \neq), Logic (AND, OR, NOT, XOR) Statistical computation: Statistical type: MAX, MIN, AVE, SUM, MAX-MIN Comutation channel can be recorded Cu10, Cu25 RTD input (/N1) Cu10, Cu25 RTD input (/N1) Cu10, Cu25 RTD input (/N2): A, B, b legs of RTD are isolated for dot model Expansion inputs (/N3)

- Expansion inputs (/N3)
- Following input types can be supported besides standard inputs. TC: PR40_20, PLATINEL, NiNiMo, W/WRe26, Type N (AWG14), Kp vs Au7Fe
- RTD: Pt25, Pt50, Ni100 (SAMA), Ni100 (DIN), Ni120, J263*B, Cu53, Cu100 *Cu100 : α=0.00425 at 0℃

Below actions can be assigned to up to 5 points Recording start/stop, Chart speed change, Message printout start, Manual printout start, Alarm ACK, Time set, Math start/stop, Math reset Calibration Correction (/CC1)

Corrects the measurement value of each channel using segment linearizer

- 24V DC/AC Power Supply (/P1) Rated power supply: 24 V DC/AC Allowable power supply voltage range: 21.6 to 26.4 V DC/AC Rated power supply frequency: 50/60 Hz
- Remote control (/R1)

Number of segment points: 2 to 16

approximation.

11

Model Codes

μκτύουυ			
Model Code	Suffix Code	Option Code	Description
436101			μR10000 1 pen recorder
436102			μR10000 2 pen recorder
436103			μR10000 3 pen recorder
436104			μR10000 4 pen recorder
436106			μR10000 6 dot recorder
Language	-2		English/German ⁹ /French ⁹ , degF & DST
Option		/A1	Alarm output relay (2 contacts) ¹
		/A2	Alarm output relay (4 contacts) ¹
		/A3	Alarm output relay (6 contacts) 1, 2
		/C3	RS-422A/485 communication interface ³
		/C7	Ethernet communication interface ³
			FAIL/chart end detection and output ²
		/H2	Clamped input terminal ⁴
		/H3	Non-glare door glass
		/H5[] ⁸	Portable Type 7
		/M1	Mathematical function
		/N1	Cu10, Cu25 inputs
		/N2	3 legs Isolated RTD 4, 5
		/N3	Expansion inputs 6
		/P1	24V DC/AC Power Supply 7
		/R1	Remote control (5 contacts)
		/CC1	Calibration Correction

1: Only one of /A1, /A2, /A3 can be selected, 2: /A3 and /F1 can not be specified together, 3: /C3 and /C7 can not be specified together, 4: /H2 and /N2 can not be specified together, 5: /N2 can be specified for dot model, 6: 14 types inputs: Pt60 RTD, PR40-20, PL TINEL TC etc., 7: /H5[Jand /P1 can not be specified together, 8: /H5[] (D-Power cord UL, CSA std, F-Power cord VDE std, R-Power cord SAA std, J-Power cord SB std, H-Power cord SAA std, 9: /Power cord SB std, H-Power cord SAA std, 9: /Power cord SB std, H-Power cord SAA std, 9: /Power cord SB std, H-Power cord SAA std, 9: /Power cord SB std, H-Power cord SAA std, 9: /Power cord SB std, H-Power cord SAA std, 9: /Power cord SB std, H-Power cord SAA std, 9: /Power cord SB std, H-Power cord SAA std, 9: /Power cord SB std, H-Power cord SAA std, 9: /Power cord SB std, H-Power cord SAA std, 9: /Power cord SB std, H-Power cord SAA std, 9: /Power cord SA

μR 20000

uR10000

Model Code	Suffix Code	Option Code	Description	
437101			μR20000 1 pen recorder	
437102			μR20000 2 pen recorder	
437103			μR20000 3 pen recorder	
437104			μR20000 4 pen recorder	
437106			μR20000 6 dot recorder	
437112			µR20000 12 dot recorder	
437118			µR20000 18 dot recorder	
437124			μR20000 24 dot recorder	
Language	-2		English/German ¹¹ /French ¹¹ , degF & DST	
Option		/A1	Alarm output relay (2 contacts) ¹	
		/A2	Alarm output relay (4 contacts) ¹	
		/A3	Alarm output relay (6 contacts) ¹	
		/A4	Alarm output relay (12 contacts) 1, 2	
		/A5	Alarm output relay (24 contacts) 1, 3, 4	
		/C3	RS-422A/485 communication interface 5	
		/C7	Ethernet communication interface 5	
			FAIL / Chart end detection and output ^{2, 3}	
		/H2	Clamped input terminal 6	
		/H3	Non-glare door glass	
		/H5[]10	Portable Type 9	
		/M1	Mathematical function	
		/N1	Cu10, Cu25 RTD input	
		/N2	3 legs isolated RTD input 6, 7	
		/N3	Expansion inputs 8	
		/P1	24V DC/AC Power Supply 9	
		/R1	Remote controls (5 contacts)	
		/CC1	Calibration Correction	

1: only one of /A1, /A2, /A3, /A4, /A5 can be selected, 2: /A4 and /F1 can not be specified together for pen model, 3: /A5 and /F1 can not be specified together, 4: /A5 can be specified only for dot model, 5: //C3 and (7C can not be specified together, 6: /A2 and /N2 can not be specified together, 7: /N2 can be specified only for dot model, 8: 14 types inputs: Pt50 RTD, PR40-20, PLTINEL TC etc., 9: /H51 and /P1 can not be specified together, 10: /H51 (1) CP-Ower cord UL, CSA 4: C, -POwer cord VDE std, R-Power cord SAA std, J-Power cord BS std, H-Power cord GB std), 11: Available from firmware version R1.21

Model Code	Description	OS
RXA10-01	RXA10 configuration software*	Windows 2000/XP
RXA10-02	RXA10 configuration software* (With interface unit)	Windows 2000/XP

 * The support of $\mu R20000$ is from R2.01 version.



What does Yokogawa **vigilance** mean to the future of your business? *Quality.* Through products that are built from the ground up and tested to the last hour, you're ensured continuous operation and more uptime. *Innovation.* Your business will benefit from new insights and capabilities, bringing true predictability to your process. *Foresight.* As the market changes, you'll have solutions that give you the continuity and flexibility to plan ahead and grow. Our partners know the difference. With Yokogawa, you can count on a lifetime of plant efficiency, from instrumentation to operation support. Let us be vigilant about your business.

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

NetSol Online Sign up for our free e-mail newsletter www.yokogawa.com/ns/

Vig-RS-1E

VIG-RS-TE Printed in Japan, 512(KP) [Ed : 03/b]

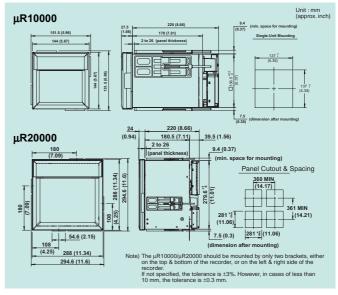
Standard	Accessories

Name	1 pen	2 pen	3 pen	4 pen	dot	
Z-fold chart	1	1	1	1	1	
6 color ribbon cassette	-	-	-	-	1	
	Red	1	1	1	1	-
Disposable felt-pen	Green	-	1	1	1	-
cartridge	Blue	-	-	1	1	-
-	Violet	-	-	-	1	-
Plotter pen Purple		1	1	1	1	-
Mounting brackets	2	2	2	2	2	
Instruction manual (CD-R	1	1	1	1	1	
Operation manual	1	1	1	1	1	

Spares/Optional Accessories

Name			Model Code (Parts No.)	Specification		
Z-fold chart for µR10		R10000	B9565AW	10 (sales unit)		
	for µR20000		B9573AN	TO (Sales unit)		
6 color ribbon	for µ	R10000	B9901AX	1 (sales unit)		
cassette	for µR2000		B9906JA	r (sales unit)		
cartridge Blue		Red	B9902AM	1 (sales unit, 3 piece/unit)		
		Green	B9902AN	1 (sales unit, 3 piece/unit)	Disposable	
		Blue	B9902AP	1 (sales unit, 3 piece/unit)	felt-pen, Plotter pe	
		Violet	B9902AQ	1 (sales unit, 3 piece/unit)		
Plotter pen Purple		B9902AR	1 (sales unit, 3 piece/unit)			
Mounting brackets		B9900BX	2 (sales unit)	6		
	(for	screw	415920	$250 \ \Omega \pm 0.1\%$		
Shunt resistor	ìir	nput	415921	$100 \ \Omega \pm 0.1\%$		
	terminal)		415922	$10 \ \Omega \pm 0.1\%$		
	(for c	lamped	438920	$250 \ \Omega \pm 0.1\%$		
Shunt resistor	ìir	nput	438921	$100 \ \Omega \pm 0.1\%$	6 color ribbon	
	ter	minal)	438922	$10 \Omega \pm 0.1\%$	cassette	





-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.

Subject to change without notice. All Rights Reserved, Copyright © 2005, Yokogawa Electric Corporation.

