KR2000 SERIES GRAPHIC RECORDER



KR2000 Series are network-compatible paperless recorders with high performance and high operating function employed high visibility 5.6" TFT color LCD display. High speed of sampling rate 100ms for 12 points and high accuracy of ±0.1% were realized, and measured data is stored into internal memory and maximum 2GB compact flash card (CF card). As it can be monitored by a web browser display on several computers on intranet or internet, FTP transfer of data file and E-mail notification are also available.

■ FEATURES

●Employing clear 5.6"TFT color LCD display

 Large-sized high visibility display with various display functions. Real time/Historical trend screen, Bar-graph screen, Data screen are selectable for various applications.

Large capacity of data memory and various recording method

- Compact flash card (CF card) slot is equipped as standard external memory.
- Large capacity storage of maximum 2GB is available.
- Various data storing methods are selectable such as schedule programming by time of day and time of date, recording start-up by external signal, and event and data logging of before and after trigger points for alarm.

•Multi points recording with high speed/accuracy

- High-speed recording of approximately 100ms for 12 points and high accuracy of ±0.1% were realized. Stable measuring and recording are possible with high speed.
- High withstand voltage of 1000V AC between input channels

● Easy operating and programming without manual

- · Easy operating by dedicated keys for each function.
- USB port is prepared in front compartment. Setups, readout of data and files are possible by connecting the panel mounted recorder with a lap-top computer.

●LAN network capability

 Various networked environment such as remote monitoring by browser, FTP server and E-mail notification are applied as Ethernet is equipped as standard.

Safety system and reliability

 No battery backup needed for external memory for recorded data storage.

● Analyzing/data acquisition application software

It is easy to replay and edit the recorded data file.
 Replay display has functions of vertical/horizontal trend, circular trend, and also wave-analyzing and marking by using the cursor.



■ MODELS

(R21 - A

-Measuring points/sampling rate*

60: 6 points/100ms

20: 12 points/100ms

61: 6 points/1s

21: 12 points/1s

-Communications interface (option)

N: None

R: High-order (RS232C/RS485)

Q: High-order (RS232C/RS485)

+ Low-order (RS485)

Digital input/ alarm output (option)

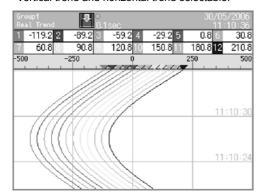
- 0: None
- 1: Mechanical relay output 12 points (a contact)
- 2: Mechanical relay output 6 points (c contact)
- 7: Digital input 8 points
 - + MOS relay output 8 points

^{* 1} to 4 channels input (4 points) when setting faster than 500ms sampling rate with model of 1sec sampling rate.

■ SCREENS

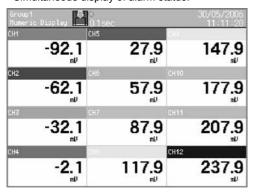
● Real-time trend screen

Displays data (measured and virtual) of selected group. Vertical trend and horizontal trend selectable.



●Data screen

Displays data (measured and virtual) of selected group. Simultaneous display of alarm status.



●Information screen

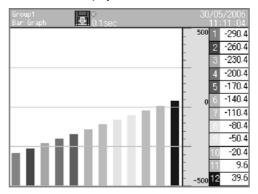
Group1 Card file	3	o 0.1sec	30/0 11	5/2006 :18:09
Start date	and time	End date and time	Data count	
30/05/2006	11:18:02	30/05/2006 11:18:04	30	
30/05/2006	11:17:58	30/05/2006 11:18:00	28	
30/05/2006	11:17:54	30/05/2006 11:17:56	24	_
30/05/2006	11:17:50	30/05/2006 11:17:52	26	_
30/05/2006	11:17:44	30/05/2006 11:17:47	38	_
30/05/2006	11:17:40	30/05/2006 11:17:43	33	_
30/05/2006	11:17:35	30/05/2006 11:17:38	38	_
30/05/2006	11:17:31	30/05/2006 11:17:34	36	_
30/05/2006	11:17:27	30/05/2006 11:17:30	33	_
30/05/2006	11:17:24	30/05/2006 11:17:26	26	_
30/05/2006	11:17:18	30/05/2006 11:17:22	49	_
30/05/2006	11:17:12	30/05/2006 11:17:17	54	_
30/05/2006	11:17:04	30/05/2006 11:17:11	73	_
30/05/2006	11:16:49	30/05/2006 11:17:03	145	
30/05/2006	11:16:42	30/05/2006 11:16:48	62	
30/05/2006	11:16:02	30/05/2006 11:16:40	382	-
70 /05 /2006	44 - 40 - 45	20 /05 /2006 44 - 12 - 14	4900	

●Channel setting screen

	Group1 30/05/2006 Numeric Display 0.1sec 11:19:18						
CH.	Range typ	e e	Tag		Unit		1
01	500mU	•		•	mU	▾	
02	500mU	虿		•	mi)		
03	500mJ/			•	mU	₹	
04	500mU	₹		•	mÜ	┰	
05	500mD			₹	mU		
06	500mU	₹		•	mU	₹	
07	500mU			₹	mÜ	\blacksquare	
08	500mU			•	mU Um		
09	500mD			₹	mU	ॼ	
10	500mU	~		•	mU	•	
11	500mU	▾		•	mÜ	•	
12	500mU	•		•	mU	•	
13	10V	▾		•	V	•	
14	10V	▼		▼	V	▼	

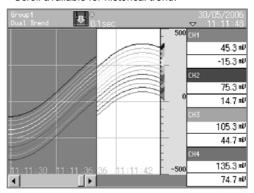
Bar-graph screen

Displays data (measured and virtual) of selected group. Combination display with real-time trend is available.

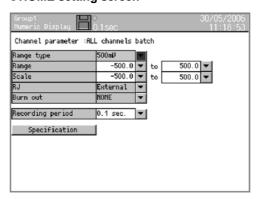


Dual trend screen

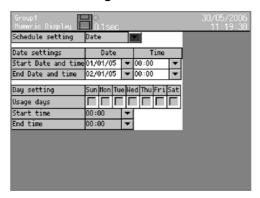
2 split display for real-time trend and historical trend. Scroll available for historical trend.



●HOME setting screen



Schedule setting screen





■ INPUT SPECIFICATIONS

6 points, 12 points Universal Measuring points: Input types

Refer to the table of measuring range and accuracy ratings Accuracy ratings:

Reference junction compensation accuracy:

K, E, J, T, N, Platinel --- ±0.5°C or less
R, S, W-WRe26, WRe5-WRe26, NiMo-Ni,
CR-AuFe,U, L --- ±1.0°C or less

100ms --- Approximately 100ms for all points
1s --- Approximately 300ms for all points*

*100ms/4 points (1 to 4 channels input) when setting faster than 500ms

"Tuums4 points (1 to 4 channels input) when setting faster sampling rate at with model of 1 sec sampling rate. Disconnection of input signal is detected on thermocouple and resistance thermometer input. UP/DOWN/DISABLE is selectable. Range/scale is selectable. Programming FIR filter for each point (common to all points). Burnout:

Scaling: Digital filter: all points)

Allowable signal source resistance:

Thermocouple input (burnout disable)/
DC voltage input ($\pm 2V$ or less) ---1kΩ or less
DC voltage input ($\pm 5V$ or more) ---100Ω or less
Resistance thermometer --- Per wire 10Ω or less
(same resistance for (same resistance for 3 wires)

(same resistance for 3 wires DC voltage, thermocouple input — Approximately 1 MΩ: DC voltage input (±2V or less)/
thermocouple input (burnout disable) — ±10VDC
DC voltage input (±5V to ±50V) — ±60VDC
veen channels:
1000V AC or more between each channel
(High strength semiconductor relay used)

(B terminal of societace thermometer is shorted inside to Input resistance Maximum input voltage:

Dielectric strength bety

(B terminal of resistance thermometer is shorted inside between

■ RECORDING SPECIFICATIONS

Memory for history: Additional memory: 132MB

Recording cycle:

132MB
CF card (Up to 2GB)
100, 200, 500ms
1, 2, 3, 5, 10, 15, 20, 30s
1, 2, 3, 5, 10, 15, 20, 30, 60min
Measured data — File name (group name), time of day, month and year of recording start, tag, measured data, alarm status/types
Setting parameter
Binary/CSV
Manual start/stop (dedicated key operation) Logging data:

Storing types: Storing methods:

Binary/CSV
Manual start/stop (dedicated key operation)
Schedule (designation for time of day and date)
Trigger signal (alarm event, digital input)

Ingger signal (alarm event, digital input)

*Pre-trigger is selectable
Measuring numbers of pre-trigger --- Maximum 950 data
Recording cycle 500ms or faster --- up to 3 groups of 12
points/group can be programmed
Recording cycle 1s or slower --- up to 5 groups of 44
points/group can be programmed
(Up to total of 100 points) Recording group:

When 6 channels recorded in sampling mode (real data).

Recording cycle	128MB	256MB	512MB	1GB	2GB
0.1 sec	6.32 days	12.6 days	25.3 days	50.6 days	101 days
1sec	63.2 days	126 days	253 days	1.4 yrs	2.8 yrs
60 sec	10 yrs	21 yrs	42 yrs	83 yrs	166 yrs

When 12 channels recorded in sampling mode (real data)

Recording cycle	128MB	256MB	512MB	1GB	2GB
0.1 sec	3.16 days	6.32 days	12.6 days	25.3 days	50.6 days
1sec	31.6 days	63.2 days	126 days	253 days	1.4 yrs
60 sec	5.2 yrs	10 yrs	21 yrs	42 yrs	83 yrs

■ COMPUTATION SPECIFICATIONS

Computation points Computation types:

Maximum 44 points Arithmetic operations

Addition, subtraction,

Addition, subtraction, multiplication, division, remainder, exponential Equality, inequality, great, less, equality / great, equality / less AND, OR, XOR, NOT Round-up, round-down, absolute Comparison operations

Logical operations --General functions ---

value, square root, exponent of e, natural logarithm, common

Integration operations ---

Channel data operations -

Industrial logarithm, common logarithm
Analog integration, digital integration
Measured data computation, calculated data computation Dew point, relative humidity,

-value Remaining amount of CF card

■ ALARM SPECIFICATIONS

Setups: Alarm types

Up to 4 alarms can be programmed per channel
Upper limit, lower limit, differential upper limit, differential lower
limit (deadband is selectable), abnormal data
Setup range of alarm delay --- 1 to 3600 seconds
AND/OR selectable
Refer to option specification

Delay function: Alarm settings: Alarm outputs:

Others ---

■ DISPLAY SPECIFICATIONS

Display: Display types:

5.6"TFT color LCD Measured data display (Trend screen, Data screen, Bar-graph

screen)

Historical trend display (simultaneous display with Real-time trend is available)

Information display (alarm display, marker list, file list) Setting screen (alarm, computation, memory, system, maintenance, communication, etc.)

maintenance, communication, etc.)
12 colors selectable
Display screen--- 5 screens (5 groups)
Display points --- Maximum 44 points/screen
Time axis direction --- Vertical or horizontal
Line width --- 1/3/5 dot selectable
Scale display --- 4 scales
Tag/data display --- Show/hide selectable
Marker display

Data screen:

Bargraph screen:

Display screen --- 5 screens (5 groups)
Display screen --- 5 screens (5 groups)
Display points --- Maximum 44 points/screen
Display direction --- Vertical or horizontal
Scale display --- 1 scale
Alarm display (alarm activation/released history display)
Marker list

Information display:

warker list
File list (group data file list display)

LCD back light:
Auto/manual OFF function
Unit information (Model, Serial no., option, etc.)
Brightness --- 4 levels adjustment
*The LCD display may contain some pixels that always or never illuminate, and the brightness of some areas of the display may appear uneven. There are typical LCD performance characteristics and do not constitute malfunctions.

■ COMMUNICATION FUNCTIONS

Network

Trend screen:

Communication type: FTP server: FTP client: Ethernet (10BASE-T/100BASE-TX)
Data file can be read from the network computer
Transfer a data file to a network server

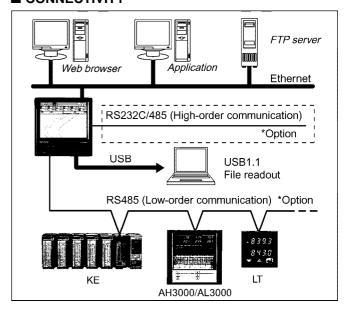
Transfer a data file to a network server
The time can be synchronized to the time of SNTP server
Conformed to HTTP1.0 --- Displays the alarm, information of
maintenance by browser software (InternetExplorer5.0 or later,
NetScape6.0 or later, Opera7 or later)
*User's ID and password registration available
E-Mail notification at specified time for alarm activation
Report data at specified time is selectable from all registered
data
Notification address --- Maximum 8 contacts SNTP client: Web server

E-Mail:

USB Communications

Communication type --- USB1.1
Transfer systems --- Bulk transfer, control transfer
File transfer by connecting as removable disk drive

■ CONNECTIVITY



■ PROGRAMMING/OPERATION SPECIFICATIONS

Operation key: HOME, MENU, DISP, MARKER, SCROLL, CURSOR, START,

STOP, DIRECTION keys, ENTER, ESC Simple recording settings --- Common setting to all channels HOME settings:

Parameter programming for all channels together, recording

cycle, selection settings

MENU settings: Input/computation programming --- Input parameter,

computation parameter

DISP settings --- Data channel parameter, group parameter, common parameter (combination display, trend

vertical/horizontal) Alarm settings

File settings (5 individual files) --- Storing method settings

Marker text settings
System settings --- Communication, clock, maintenance, key lock, password, screen, etc.

DISP operations: Operating screen selection --- Trend, data, bar-graph,

historical trend, alarm display,

maker list

Display selection on each screen --- Group 1 to 5 selectable

■ GENERAL SPECIFICATIONS

100 to 240V AC (universal power supply) 50/60Hz Rated power voltage:

Maximum power consumption: 50VA Reference operating condition:

Ambient temperature --- 21 to 25°C, Ambient humidity --- 45 to 65%RH Power voltage --- 100V AC±1.0% Power frequency --- 50/60Hz±0.5% Attitude --- Left/right 0°, forward/backward 0°

Warm-up time --- Longer than 30 minutes

Normal operating condition:

Ambient temperature --- 0 to 50°C Ambient humidity --- 20 to 80%RH Power voltage --- 90 to 264V AC Power frequency --- 50/60Hz±2% Attitude --- left/right 0°, forward tilting 0°, Backward tilting 0° to 20°

Transport condition (at the packed condition on shipment from our factory):

Ambient temperature --- -20 to 60°C

Ambient humidity --- 5 to 90%RH (No dew condensation)

Vibration --- 10 to 60Hz 0.5G (4.9m/S²) or less

Impact --- 40G (392m/S²) or less

Ambient temperature --- -20 to 60°C

Storage condition:

Ambient humidity --- 5 to 90%RH (No dew condensation)

Power failure protection: Setups and data are backed up by flash memory Clock --- Lithium battery backs up RAM

(Minimum 5 years)

Insulation resistance:

Secondary terminals and protective conductor terminals ---

 $20M\Omega$ or more at 500V DC

Primary terminals and protective conductor terminals ---

 $20 M\Omega$ or more at 500V DC

Primary and secondary terminals --- $20M\Omega$ or more at 500V DC Primary terminals: power terminals (L,N), alarm output terminals Secondary terminals: measuring input terminals, digital input terminals,

communications terminals

Secondary terminals and protective conductor terminals ---Dielectric strenath:

1 minute at 500V AC

Primary terminals and protective conductor terminals --

1 minute at 1500V AC

Primary and secondary terminals --- 1 minute at 2300V AC Primary terminals: power terminals (L.N), alarm output terminals Secondary terminals: measuring input terminals, digital input terminals, communications terminals

Case assembly material: Front bezel --- ABS resin

Case --- Steel

Front bezel --- Black (equivalent to Mussel N3.0) Color Case --- Painting color, gray (equivalent to Mussel N7.0)

2.2kg Weight:

Panel mounting Mounting:

Terminal screws: Power terminals/protective conductor terminals/communications

Measuring input terminals/alarm output terminals/digital input

terminals --- M3.5

■ STANDARDS

EMC directive ---EN61326: 1997 + A1 + A2 + A3: 2003

Class A EN61000-3-2: 2000

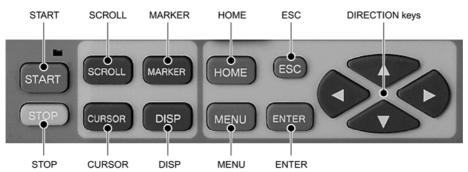
EN61000-3-3: 1995 + A1: 2001 Low voltage directive -EN61010-1: 2nd ed. (2001)

Protection: Conformed to IEC529 IP65 (recorder front bezel)

■ ODTION SDECIEIC ATIONS

Options	Specifications			
Mechanical relay alarm output	Mechanical relay contact output for abnormal input and alarm activation Output: 12 points (a contact), 6 points (c contact) Contact ratings: Mechanical relay 100V AC 0.5A, 240V AC 0.2A, 30V DC 0.3A			
MOS relay alarm output	MOS relay contact output for abnormal input and alarm activation Output: 8 points Contact ratings: MOS relay 240V (DC, AC) 50mA			
	High-order communications	Communications interface for high-order units RS232C/RS485 (MODBUS) switchable Ethernet is standard equipped		
Communications interface	Low-order communications	Communications interface for low-order units Input data storing of units connected to low-order RS485 (MODBUS) Recording points: 6 points recorder 30 points recorder 24 points		
	ON/OFF signal	ON/OFF input recording		
	Pulse input	Maximum 10Hz pulse input Used for flow, operating time and frequency Input system: Photocoupler isolation (Common use for contact and pulse input) Built-in isolated power supply (approx. 5V) Input type: Non-power contact, open collector (TTL or transistor)		
Digital inputs	Remote contact	The following operations are available by contact input 8 points and common signal 4 points (Selectable by parameter). •Data memory triggering Start data recording by conductive signal from OFF to ON Data recording while conductive signal is ON •Marker display Registered makers display by conductive signal from OFF to ON •Integration operations Reset data for integration operations (all channels simultaneously)		
Others		hite front bezel, point indication card		

■ OPERATION KEYS





■ MEASURING RANGES/ACCURACY RATINGS

					ACYRATINGS
	Input type		_	range	Accuracy rating
		-13.80	to	13.80mV	
		-27.60	to	27.60mV	
	DC voltage	-69.00	to	69.00mV	
DC voltage		-200.0	to	200.0mV	
		-500.0	to	500.0mV	±0.1%±1digit
		-2.000	to	2.000V	±0.170±Tuigit
		-5.000	to	5.000V	
(with	built-in voltage	-10.00	to	10.00V	
divid	ler)	-20.00	to	20.00V	
		-50.00	to	50.00V	
		-200.0	to	300.0°C	
	К	-200.0	to	600.0°C	
		-200	to	1370°C	
		-200.0	to	200.0°C	
	E	-200.0	to	350.0°C	±0.1%±1digit
	_				*-200 to 0°C:
		-200	to	900°C	±0.2%±1digit
		-200.0	to	250.0°C	±0.2 /0± ruigit
	J	-200.0	to	500.0°C	
		-200	to	1200°C	
	Т	-200.0	to	250.0°C	
	·	-200.0	to	400.0°C	
	R	0	to	1200 °C	±0.1%±1digit
	IX	0	to	1760 °C	*0 to 400°C:
	0	0	to	1300°C	±0.2%±1digit
	S	0	to	1760°C	±0.2 /0± ruigit
					±0.1%±1digit
	_				*0 to 400°C: Out of
	В	0	to	1820°C	accuracy ratings
					*400 to 800°C: ±0.15%±1digit
		-200.0	to	400.0°C	·
	N				±0.15%±1digit *-200 to 0°C:
	IN	-200.0	to	750.0°C	
		-200	to	1300°C	±0.3%±1digit
					±0.15%±1digit *0 to 100°C:
T/C	W-WRe26	0	to	2315°C	±4%±1digit
				20.00	*100 to 400°C:
					±0.5%±1digit
	WRe5-WRe26	0	to	2315°C	±0.2%±1digit
					±0.2%±1digit
	DIDL 40 DIDL 00	•	to	400000	*0 to 300°C:
	PtRh40-PtRh20	0		1888°C	±1.5%±1digit *300 to 800°C:
					±0.8%±1digit
		-50.0	to	290.0 °C	
	NiMo-Ni	-50.0	to	600.0 °C	±0.2%±1digit
		-50	to	1310 °C	
		-30	10	1010 0	±0.2%±1digit
					*0 to 20K:
	CR-AuFe	0.0	to	280.0K	±0.5%±1digit
					*20 to 50 K:
					±0.3%±1digit
		0.0	to	350.0°C	
	Platinel	0.0	to	650.0°C	±0.15%±1digit
		0	to	1395°C	
		-200.0	to	250.0°C	±0.15%±1digit
	U	-200.0	to	500.0°C	*-200 to 0°C:
	U	-200.0		600.000	±0.3%±1digit
	O	-200.0	to	600.0°C	±0.570± raigit
	U		to to	250.0°C	±0.1%±1digit
	L	-200.0			· ·
		-200.0 -200.0 -200.0	to to	250.0°C 500.0°C	±0.1%±1digit *-200 to 0°C:
		-200.0 -200.0 -200.0 -200	to to to	250.0°C 500.0°C 900 °C	±0.1%±1digit
	L	-200.0 -200.0 -200.0 -200 -140.0	to to to	250.0°C 500.0°C 900 °C 150.0°C	±0.1%±1digit *-200 to 0°C: ±0.2%±1digit ±0.1%±1digit *-140.0 to 150.0°C:
		-200.0 -200.0 -200.0 -200 -140.0 -200.0	to to to to	250.0°C 500.0°C 900 °C 150.0°C 300.0°C	±0.1%±1digit *-200 to 0°C: ±0.2%±1digit ±0.1%±1digit *-140.0 to 150.0°C: 700 to 850°C:
	L	-200.0 -200.0 -200.0 -200 -140.0 -200.0 -200.0	to to to to to	250.0°C 500.0°C 900 °C 150.0°C 300.0°C 850.0°C	±0.1%±1digit *-200 to 0°C: ±0.2%±1digit ±0.1%±1digit *-140.0 to 150.0°C: 700 to 850°C: ±0.15%±1digit
	L	-200.0 -200.0 -200.0 -200 -140.0 -200.0	to to to to	250.0°C 500.0°C 900 °C 150.0°C 300.0°C	±0.1%±1digit *-200 to 0°C: ±0.2%±1digit ±0.1%±1digit *-140.0 to 150.0°C: 700 to 850°C: ±0.15%±1digit ±0.1%±1digit
RTD	L	-200.0 -200.0 -200.0 -200 -140.0 -200.0 -200.0	to to to to to	250.0°C 500.0°C 900 °C 150.0°C 300.0°C 850.0°C	±0.1%±1digit *-200 to 0°C: ±0.2%±1digit ±0.1%±1digit *-140.0 to 150.0°C: 700 to 850°C: ±0.15%±1digit ±0.1%±1digit *-140.0 to 150.0°C:
RTD	L Pt100	-200.0 -200.0 -200.0 -200 -140.0 -200.0 -200.0 -140.0	to to to to to to	250.0°C 500.0°C 900 °C 150.0°C 300.0°C 850.0°C	±0.1%±1digit *-200 to 0°C: ±0.2%±1digit ±0.1%±1digit *-140.0 to 150.0°C: 700 to 850°C: ±0.15%±1digit ±0.1%±1digit
RTD	L Pt100	-200.0 -200.0 -200.0 -200.0 -200 -140.0 -200.0 -200.0 -140.0 -200.0	to to to to to to to	250.0°C 500.0°C 900 °C 150.0°C 300.0°C 850.0°C 150.0°C 300.0°C	±0.1%±1digit *-200 to 0°C: ±0.2%±1digit ±0.1%±1digit *-140.0 to 150.0°C: 700 to 850°C: ±0.15%±1digit ±0.1%±1digit *-140.0 to 150.0°C:
RTD	L Pt100 JPt100 Pt50	-200.0 -200.0 -200.0 -200.0 -140.0 -200.0 -140.0 -200.0 -140.0 -200.0 -200.0	to to to to to to to to	250.0°C 500.0°C 900 °C 150.0°C 300.0°C 850.0°C 150.0°C 300.0°C 649.0°C 649.0°C	±0.1%±1digit *-200 to 0°C: ±0.2%±1digit ±0.1%±1digit *-140.0 to 150.0°C: 700 to 850°C: ±0.15%±1digit ±0.1%±1digit *-140.0 to 150.0°C: ±0.15%±1digit ±0.15%±1digit ±0.15%±1digit
RTD	L Pt100 JPt100	-200.0 -200.0 -200.0 -200.0 -140.0 -200.0 -200.0 -140.0 -200.0 -200.0 -200.0	to to to to to to to to	250.0°C 500.0°C 900 °C 150.0°C 300.0°C 850.0°C 150.0°C 300.0°C 649.0°C	±0.1%±1digit *-200 to 0°C: ±0.2%±1digit ±0.1%±1digit *-140.0 to 150.0°C: 700 to 850°C: ±0.15%±1digit ±0.1%±1digit *-140.0 to 150.0°C: ±0.15%±1digit ±0.1%±1digit

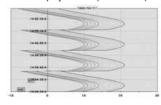
The accuracy ratings are converted into the measuring range under reference operating condition. Thermocouple input does not contain reference junction compensation accuracy. K,E,J,T,R,S,B,N:IEC584,JIS C1602-1995 W-WRe26,WRe5-WRe26,PtRh40-PtRh20,Platinel ,NiMo-Ni, Cr-AuFe:ASTM Vol14.03 U(Cu-CuNi).L(Fe-CuNi):DIN43710 Pt100:IEC751(1995),JIS C1604-1997 JPt100:JIS C1606-1989

■ APPLICATION SOFTWARE ZAILA (sold separately)

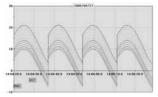
The software is applied for replay display/wave editing operation of recorded data in KR2000 series. It has replay display of vertical/horizontal trend and circular trend function, and also analyzing function such as magnify/reduce/partially magnify of graphs and message insert.

Display examples

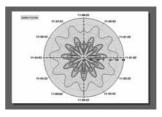
Trend display window (vertical flow)



Trend display window (horizontal flow)



Trend display window (circular trend)



Bar-graph

Main functions

■Trend display

Selectable from trend display window (vertical flow, horizontal flow) and circular trend display window.

■Continuous replay display window Trend is scrolled continuously (automatically). Scroll changes by speed and renewal data no.

■Data list display window Displays registered data as list display.

■Bar-graph

Displays by bar. Message can be inserted into bar-graph.

■Data between markers Displays date/time, time difference between 2 data, data difference, maximum, minimum, average, standard deviation and median among all data.

■Alarm display

Points for alarm activation at each level are displayed on a trend graph.

Cursor, trend line, scale axis, time axis, title input on the graph, graph assistant and magnify/reduce/rotation of graphs

■Data conversion

Exporting to Excel, and converting to CSV file or TEXT file are available.

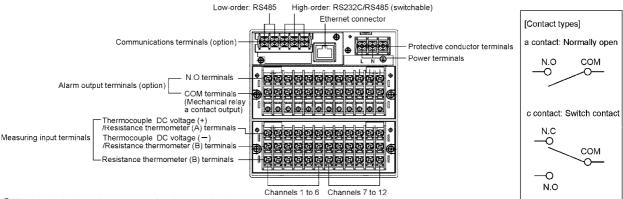
■ ENVIRONMENT

CPU	1GHz or faster
os	Windows 98/Me Windows 2000/XP Home/XP Pro *Internet Explorer 4.0 or later
Memory	256MB or more (512MB or more recommended)
Disk drive	CD-ROM drive: 1 drive or more Hard disk drive: Disk space of 1 drive or more for 100MB or more
Language	Japanese, English, Chinese (simplified and traditional characters), Korean

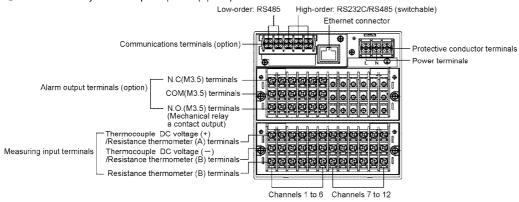


■ TERMINAL ARRANGEMENT

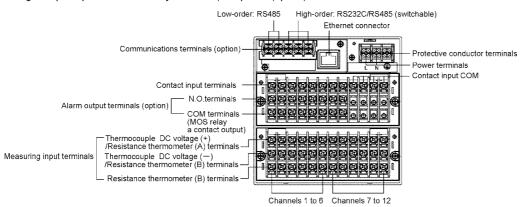
Alarm mechanical relay alarm output 12 points (option)



Mechanical relay alarm output 6 points (option)



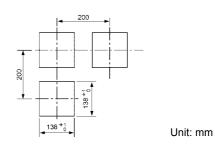
● Digital input 8 points + MOS relay alarm output 8points (option)



■ DIMENSIONES

63 18 63 203.6 24.5 203.6 29.8 200.5

■ Panel cutout and minimum clearance



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