

Status Display Part

Menu	GROUP1	Bar Graph	DATA ALARM EVENT	USB	2016/04/14 15:55:18		
1	2	3	4	5	6	7	8
Section	Item	Description					
1	Menu	Menu	Displays menu.				
	Esc	Esc	Moves from menu to current screen.				
	Home	Home	Moves to main screen.				
2	GROUP1	Group	Displays currently displayed group name. Touch the icon and select the group. You can set the group name and the set group name is displayed.				
3	Bar Graph	Graph	Select the displayed graph at the current screen. Select one among bar graph, vertical/horizontal trend graph, divided vertical/horizontal trend graph, vertical/horizontal mixed graph, digital group/all.				
4	Lock	Lock	Displays at standard user mode. (activated log-in function or log off status)				
	Lock Setting	Lock Setting	Displays at administrator mode. (activated log-in function and log-in as administrator mode)				
	Unlock	Unlock	Displays at unlock. (inactivated log-in function)				
	No Alarm	No Alarm	Displays when no alarm occurs.				
	Alarm	Alarm	Displays when alarm occurs.				
5	Internal Memory Record	Internal Memory Record	Displays when displaying measurement value and no recording it at internal memory.				
	Internal Memory No Record	Internal Memory No Record	Displays usage details of data recording space.				
6	DATA	Data Record Space	Displays usage details of data recording space.				
	ALARM	Alarm Record Space	Displays empty space of alarm data memory.				
	EVENT	Event Record Space	Displays empty space of event data memory.				
7	USB Memory No Connection	USB Memory No Connection	Displays when USB memory is not connected.				
	USB Memory No Save (gray)	USB Memory No Save (gray)	Displays when internal memory data does not save at USB memory.				
	USB Memory Save (yellow)	USB Memory Save (yellow)	Displays when internal memory data saves at USB memory.				
	SD Card No Connection	SD Card No Connection	Displays when SD card is not connected.				
	SD Card No Save (gray)	SD Card No Save (gray)	Displays when internal memory data does not save at SD card.				
8	2015/09/24 14:31:39	Date/Time	Displays date and time.				
	2015/09/24 (S) 15:33:23		If summer time is set, "(s)" marks in front of time.				

Menu

Display	History	System Info.	Date/Time
	File History		Reservation
	Group Setting		Device
	Touch Calibration		File
Status	Alarm List		Log In
	Event List		System Info.
	AO/DI Status	Memory Info.	Memory Management
			Internal Memory
Input CH Info.	Input/Display	Screen Capture	
	Input Option	Log OFF/Power OFF	
	Alarm		
	User Unit		
Option Info.	Alarm Output		
	Digital Input		
	RS422/485		
	Ethernet/USB		

✳ For more information about menu, refer to KRN1000 user manual.

Major Menu

1) Input/Display [Menu → Input CH Info. → Input/Display]

It sets input type of each channel of KRN1000.

1 CH1 >> Input/Display Input Option Alarm User Unit

2 Copy Select 7 Tag Name CH-1

3 Input Type TC-K

4 Low-Limit Graph Scale -200.0 8 Low-Limit Scale --

5 High-Limit Graph Scale 1350.0 9 High-Limit Scale --

6 Point 0.0 10 Display Unit °C

Save Esc

No	Item	Descriptions
1	Channel	Moves channel. Touch 'CH1' or >> to change the channel.
2	Copy	Copies the other channels parameters of the same group. Select the channel to be copy.
3	Input Type	Set the input type. Input types are total 27: thermocouple, RTD, voltage, current (shunt).
4	Low-Limit Graph Scale/ Low-Limit Input	In case of temperature sensor input, set the low-limit graph scale value within the input range. Setting range: Min. value of input range to high-limit graph scale value-F.S. 5% E.g.) In case of TC-K input, -200.0 to 1350.0°C of input range, and setting range is -200.0 to 1272.5°C. (-F.S.=77.5) In case of analog input, it displays low-limit input value.
5	High-Limit Graph Scale/ High-Limit Input	In case of temperature sensor input, set the high-limit graph scale value within the input range. Setting range: Low-limit graph scale value+F.S. 5% to Max. value of input range E.g.) In case of TC-K input, -200.0 to 1350.0°C of input range, and setting range is -122.5 to 1350°C. (+F.S.=77.5) In case of analog input, it displays high-limit input value.
6	Point	- Temperature sensor input: 0, 0.0 (set the decimal point for the measurement value) - Analog input: 0, 0.0, 0.00, 0.000, 0.0000 (set the decimal point position for the scale value)
7	Tag Name	Set the channel name.
8	Low-Limit Scale	Set the desired display value based on the measurement value.
9	High-Limit Scale	It is activated only for analog (voltage, current (shunt)) input type.
10	Display Unit	- Temperature sensor input: Temperature units, °C, °F, K are available. - Analog input: 72 display units are available. When not using unit, select blank.

2) Device [Menu → System Info. → Device]

It sets initial setting and option of KRN1000.

1 Device Name KRN1000 Recorder 4 Sampling 125ms

2 Language English 5 Log Record Speed 1 s

3 PWR ON Record Hold 6 Backlight Standard

7 Screen Save Disable

8 Alarm Sound OFF 9 Touch Sound Standard

Save Esc

No	Item	Descriptions
1	Device Name	Set KRN1000 device name. It supports English capital/small letter, sign and number up to 16 characters.
2	Language	Set KRN1000 display language. It supports Korean, English, Chinese (Simplified/Traditional) and Russian.
3	PWR ON Record	Set record status when supplying power or re-supplying power at power failure. - Hold: It maintains record status (recording/stop) of before power OFF. - Record: It records when power is ON. - Stop: It does not record regardless when power is ON.
4	Sampling	Set internal sampling period of measurement value. Setting range (varied by number of input channel connections) - Below 4CHs: 25, 125, 250ms - The others: 125, 250ms
5	Log Record Speed	Set log speed for recording measurement value at system memory. Setting range: 1 to 3600 sec E.g.) When setting as 3 sec, it records present value and the value after 3 sec.
6	Backlight	Set display backlight level. Setting range: Min., Standard, Max.
7	Screen Save	For saving LCD life cycle and power, screen can automatically turn OFF. Even though during screen save status, it maintains recording. Touch the screen and it turn ON the screen. Setting range: 0 to 360 min (0: disable screen save)
8	Alarm Sound	Set alarm sound volume. Setting range: OFF, Min., Standard, Max.
9	Touch Sound	Set touch sound volume when touching the menu or button of screen. Setting range: OFF, Min., Standard, Max.

3) File [Menu → System Info. → File]

It manages parameter setting files which are saved at KRN1000 memory, resets parameters.

1 Parameter Setting File None

2 Internal Memory Save Open

3 SD Memory Save Open

4 USB Memory Save Open

5 Reset Parameters Reset Settings

6 Screen Simulation (Demo) Start Stop

Save Esc

No	Item	Descriptions
1	Parameter Setting File	Displays parameter setting file name.
2	Internal Memory	Save the set parameter information at the dedicated memory or open it.
3	SD Memory	
4	USB Memory	
5	Reset Parameters	Reset parameter settings as factory default.
6	Screen Simulation (Demo)	Execute simulation the set parameters. Touch 'Start' and re-boot the unit and simulation mode starts. Touch 'Stop' to exit simulation mode and re-boot the unit.

4) Memory Management [Menu → Memory Info. → Memory Management]

It manages internal/external memory. You can check memory usage and move and copy data files.

1 Internal Memory 1MB / 14MB(8 %) Clear

2 SD Memory 15MB / 20MB(75 %) Clear

3 USB Memory 5MB / 20MB(25 %) Clear

4 Internal >> Move/Copy >> USB or SD

5 Storage Internal SD USB

Save Esc

No	Item	Descriptions
1	Internal Memory	Displays each memory usage. Touch 'Clear' to initial the memory.
2	SD Memory	
3	USB Memory	
4	Move/Copy	<p>Moves/Copies files of internal memory to SD/USB memory. - Move: Moves the file to external memory and deletes the existing file at internal memory. - Copy: Moves the file to external memory and maintains the existing file at internal memory. - Delete: Deletes the file. - Move All: Moves all files to external memory and deletes the existing all files at internal memory. - Copy All: Moves all files to external memory and maintains the existing all files at internal memory. - Delete All: Deletes all files. Select the memory to save the data.</p>
5	Storage	Select the memory to save the data.

Major Products

<ul style="list-style-type: none"> Photoelectric Sensors Fiber Optic Sensors Door Sensors Door Side Sensors Area Sensors Proximity Sensors Pressure Sensors Rotary Encoders Connectors/Sockets Switching Mode Power Supplies Control Switches/Lamps/Buzzers I/O Terminal Blocks & Cables Stepper Motors/Drivers/Motion Controllers Graphic/Logic Panels Field Network Devices Laser Marking System(Fiber, CO₂, Nd:YAG) Laser Welding/Cutting System 	<ul style="list-style-type: none"> Temperature Controllers Temperature/Humidity Transducers SSRs/Power Controllers Counters Timers Panel Meters Tachometer/Pulse(Rate) Meters Display Units Sensor Controllers 	<ul style="list-style-type: none"> Recorders Indicators Converters Controllers 	<ul style="list-style-type: none"> Thyristor Power Controllers Pressure Transmitters Temperature Transmitters
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