# **Autonics**

# 100mm Hybrid Recorder **KRN100 SERIES** INSTRUCTION MANUAL

Thank you for choosing our Autonics product. Please read the following safety considerations before use.

### Safety Considerations

- %Please observe all safety considerations for safe and proper product operation to avoid hazards.
- Safety considerations are categorized as follows.
- Marning Failure to follow these instructions may result in serious injury or death.
- Caution Failure to follow these instructions may result in personal injury or product damage.
- %The symbols used on the product and instruction manual represent the following
- ▲ symbol represents caution due to special circumstances in which hazards may occur

#### **M** Warning

1. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion

- apparatus, safety equipment, crime/disaster prevention devices, etc.) Failure to follow this instruction may result in personal injury, fire, or economic loss
- 2. The unit must be installed on a device panel before use. Failure to follow this instruction may result in electric shock.
- 3. Do not connect, repair, or inspect the unit while connected to a power source.
- Failure to follow this instruction may result in electric shock
- 4. Do not disassemble or modify the unit. Please contact us if necessary.
- Failure to follow this instruction may result in electric shock or fire. 5.Check the terminal numbers before connecting the power source.
- Failure to follow this instruction may result in fire.

#### ▲ Caution

- 1. Do not use the unit outdoors.
- Failure to follow this instruction may result in shortening the life cycle of the unit, or electric shock. 2. Use the unit within the rated specifications.
- Failure to follow this instruction may result in shortening the life cycle of the unit, or fire
- 3. Do not use water or oil-based detergent when cleaning the unit. Use dry cloth to clean the unit.
- Failure to follow this instruction may result in electric shock or fire. 4. Do not use the unit where flammable or explosive gas, humidity, direct sunlight, radiant heat, vibration, or impact may
- be present. Failure to follow this instruction may result in fire or explosion
- Keep dust and wire residue from flowing into the unit. Failure to follow this instruction may result in fire or product damage.
- 6. Check the polarity of the power contact before wiring the unit.
- Failure to follow this instruction may result in fire or explosion

#### %Please read "Safety Considerations" in KRN100 user manual before using.

#### Specifications

	omoutono								
Series		KRN100							
Power vo	tage	100-240VAC 50/60Hz							
Allowable	voltage range	85 to 110% of rated voltage							
Power co	nsumption	Max. 55VA							
	LCD type	STN Graphic LCD							
Resolution		320×120 Pixel							
Screen	Adjusting brightness	4-level (OFF/Min/Standard/Max)							
	Backlight	White LED, 2-level (Temp/Always)							
Input chai	nnels	2 / 4 / 6 / 8 / 10 / 12-channel (2-channel/card)							
Universal	input	Temperature sensor (RTD, thermocouple), analog (voltage, current)							
Sampling	period	1 to 4-channel: 25ms/125ms/250ms, 5 to 12-channel: 125ms/250ms (inner sampling period is operation unit time for average movement filter and alarm output function.) %Min. sampling period for TC-R. U. S. T sensor is 50ms.							
Recording	speed in graph mode	10, 20, 40, 60, 120, 240mm/H							
Recording	speed accuracy	F.S. ±0.5%							
Storage c	ycle	1 to 3600 sec (storage interval time to inner log file is 1 sec)							
Inner mer	nory	512MB							
USB mem	lory	User purchased, recognizes max. 32GB, enables to use cable up to 1.5m							
Dielectric	voltage	2500VAC 50/60Hz for 1 min (power terminal and case) ※Excepts USB Device and Ethernet							
Vibration (for conve operating	strength y and storage) and vibration	Vibration strength: 10 to 60Hz 4.9m/s² (each X, Y, Z axis for 1 hour) Operating vibration: 10 to 60Hz 1m/s² (each X, Y, Z axis for 10 min)							
Insulated	resistance	Min. 20MΩ (at 500VDC megger)							
Noise		$\pm 2kV$ the square wave noise (pulse width $1\mu s)$ by the noise simulator							
Time accu	uracy	Within ±2 min/year (enables to use up to 2100 year)							
Mech-	Ink cartridge	Enables to normal print with going and returning printing max. 5 times within 7 days after opening the unit							
anism	Ink dry time	Max. 15 minutes							
Protection		IP40 (for front panel)							
Recording	g paper	113mm×9m							
Environ-	Ambient temperature	0 to 50°C, storage: -20 to 60°C (without ink cartridge)							
ment	Ambient humidity	35 to 85%RH, storage: 35 to 85%RH							
Approval		CE. 16							
Weight <sup>**</sup> 1		Approx. 2.4 to 2.7kg (approx. 1.7 to 2.0kg)							
※1: The v ※Environ	veight includes packag ment resistance is rate	ing. The weight in parentheses is for unit only. d at no freezing or condensation.							

### Dimensions

Connections

This figure is the rear side of KRN100-04000-00-0S.



#### Slot Description

1 to 6 Connects universal input card (KRN-UI2)

Connects digital input card (KRN-DI6), alarm output 7 to 10 card (KRN-AR4, KRN-AT6), transmitter power output card (KRN-24V3).

С

Connects communication output card (KRN-COM).

### I/O Card



### Screen Layout And Status Display

Screen layout is divided as two; upper screen for status display, lower screen for measuring value display, virtual keyboard display, parameter setting display.

Upper screen displays recorder status and information of recorder as icon.

	INTEL	LIGENT HYBRID RECORDER 4 5677 asuring value display tual keyboard display ameter setting display	
KRN	STOP II K	AL RESET FEED DISPL	WB ENTEE」 Av Autonics
Section	on Icon	Name	Description
		Record start icon	Marks if for starting recording measuring value of recordable channels.
		Record stop icon	Stops recording measuring value.
1		List record icon	Flashes during list recording.
	RE	Reservation record icon	Flashes during reservation recording.
	FEED	FEED icon	Flashes during feeding recording paper.
	BACKUP	Backup data print icon	Flashes during backup data printing.
		Digital mode icon	Marks it for digital record mode.
		Graph mode icon	Marks it for graph record mode.
2		Record memory status icon	Marks it storage capacity of record memory in digital mode or graph mode.
		No recording paper icon	Marks it for no recording paper. Please replace new recording paper.
	Ŷ	USB communication icon	Marks 😵 icon during Modbus RTU communication using USB.
3	Ь	Ethernet communication icon	Marks 📩 icon during Modbus TCP communication using Ethernet.
	X	RS485 communication icon	Marks 🗴 icon during Modbus RTU communication using RS485.
4	1 2 12	Alarm ON icon	Marks 1 2 12 channel icon which alarm occurs.
		Digital input(DI) icon	Marks the below icon according to input function setting during digital input (DI).
	ME MO!!	Digital input(DI)- memo icon	Marks it when digital memo of digital input or front with in recording status.
	RE SET	Digital input(DI)- alarm reset icon	Marks it when alarm reset signal of digital input (DI) is input.
5	RUN	Digital input(DI)- start record icon	Marks it when start record signal of digital input (DI) is input.
	ST OP	Digital input(DI)- stop record icon	Marks it when stop record signal of digital input (DI) is input.
	LI ST	Digital input(DI)- LIST output icon	Marks it when LIST output signal of digital input (DI) is input.
	SP EED	Digital input(DI)- record speed icon	Marks it when changing record speed signal of digital input (DI) is input.
	Ŀ	Unlock icon	Marks it for unlock status.
6	۵	User(general user) lock icon	Marks it for user (general user) lock status.
		Administrator lock icon	Marks it for administrator and general user lock status.
7		Inner and external (USB) memory capacity icon	Displays data capacity of internal memory as bar graph.
8	2011/02/07 MON 15:17:34	Date/Time display	Displays current date and time. In summer time season, (S) mark is also displayed at front of year.

## Input Type Setting

Before setting the parameters, set the jumper pin channel 1/2 of universal input card (KRN-UI2) depending on input specification as below figure.



Jumper pin	Input specification	Input break alarm
1	0 to 20mA, 4 to 20mA	Enables only 4 to 20mA
2	TC, RTD, ±60mV, ±200mV	Enables
3	±2V, 1 to 5V, ±5V, -1 to 10V	Disables

#### User Manual

For the detail information and instructions, please refer to user manual and user manual for communication Download manuals from the enclosed CD-ROM or our web site (www.autonics.com).





		J					2) QUICK N	IENU	Setting											
QUICK MENU QUICK MENU consists of usually used parameters for quickly parameter setting.					INTELLIG	ENT HYBRID RECORDER 378901112 ▲ @	3/15 5:07 		INTELLIGENT HYD MENU [1] YPE DOT C-K 0.0 SET SET	UNIT PEN UNIT PEN 'C Viole SET SET		3		INTELLIGENT K MENU [4] USB COPY  SET SET SET SET	HYBRID RECORD					
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Page	Parameter	Descrip	tion I	_inked para	meters		eters for qu	uickly pa	irameter setting.		of CH1,	press the S		key.		0				
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