Autonics

50 mm Hybrid Recorder



KRN50 Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- 50mm thermal transfer method of paper recorder
- Enables to record data without paper with the data logger function
- Support two recording modes: graph mode, digital mode
- Simultaneous recording of two channels
- Enables to set parameters and monitor with RS485 communication and dedicated communication port
- Multi-input with high accuracy 0.2% level (RTD, TC, Voltage, Current (shunt))
- Supports various option I/O function
- Small size (W96 \times H96 \times L100mm), light weight

Ordering Information

This is only for reference. For selecting the specified model, follow the Autonics website.

KRN50 - 0 (00-0-00
• No of input channel 01: 1 CH 02: 2 CH	 Option output One RS485 communication output
O Alarm output 0: None 2: 2 4: 4	O Power supply 0: 100-240 VAC~ 50/60 Hz 1: 24 VDC=

Software

Download the installation file and the manuals from the Autonics website.

DAQMaster

It is the comprehensive device management program for Autonics' products, providing parameter setting, monitoring and data management.

- Recording paper \times 2

+ 50 Ω B class (0.1 %) high-accuracy resistor \times 2

• Bracket imes 2

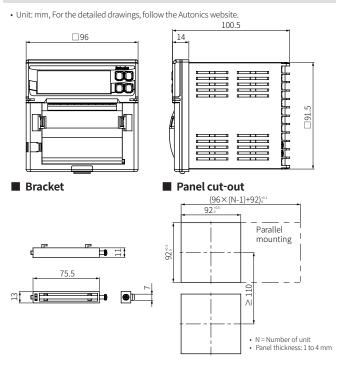
Product Components

- Product
- User manual

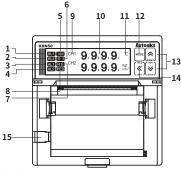
Specifications

LCD type Resolution No of input channel	KRN50 LCD dot matrix display 128 × 32 pixel		
Resolution No of input channel			
No of input channel	128 × 32 pixel		
· · ·			
	1/2 CH model		
	Refer to 'Input/Output' for detailed information.		
	CH1 (AL1, AL2), CH2 (AL1, AL2) relay output		
Alarm output adjustment sensitivity	Alarm output ON/OFF interval setting: 1 to 999 digit variable		
Communication output	RS485 communication output (Modbus RTU protocol method)		
Setting method	Setting with front key		
Sampling cycle	500 ms/CH (2 CH = 1,000 ms)		
Recording accuracy	± 0.5 % F.S.		
Graph mode recording speed	10, 30, 60, 120, 240, 480, 960 mm/H		
	30 s, 1 min, 5 min, 10 min, 15 min, 30 min, 1 hour, 2 hour, 3 hour, 4 hour, 8 hour, 16 hour, 24 hour		
TEXT mode recording speed	00m 05s to 99m 59s		
Recording paper	Thermal Direct Receipt Paper (57 mm $ imes$ 16 m)		
Recording paper supply method	Clamshell type		
Print method	Direct thermal line print		
Print resolution 8	80 dot/mm		
No. of print dot	384 dot/Line		
Print life cycle	50 km		
Language	Korean, English		
1	AC voltage type	DC voltage type	
Power supply	100-240 VAC~ 50/60 Hz	24 VDC==	
Allowable voltage range	85 to 110 % of power supply	90 to 110 % of power supply	
Power consumption	\leq 34 VA	\leq 79 W	
Dielectric strength	2300 VAC \sim 50/60 Hz for 1 minute (charging terminal of the different polarity)		
	0.75 mm amplitude at frequency of 10 to 55 Hz (for 1 min) in each of X, Y, Z directions for 1 hour		
Insulation resistance	≥ 100 MΩ (500 VDC megger)		
Noise immunity	Square shaped noise by noise simulator (pulse width 1 μ s) ± 2 kV		
Ambient temperature	0 to 50 °C, storage: -20 to 60 °C (no freezing or condensation)		
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)		
Approval	CEER		
Unit weight	≈ 700 g		

Dimensions



Unit Descriptions



- 1. Channel 1 alarm (AL1) output indicator: Turns ON when AL1 of input channel 1 operates.
- 2. Channel 1 alarm (AL2) output indicator: Turns ON when AL2 of input channel 1 operates.
- 3. Channel 2 alarm (AL1) output indicator: Turns ON when AL1 of input channel 2 operates.
- 4. Channel 2 alarm (AL2) output indicator: Turns ON when AL2 of input channel 2 operates. 5. Recording start / stop indicator: SSS turns ON when recording starts and I turns ON
 - when recording stops.
- 6. Digital input indicator: Turns ON when setting digital input.
- 7. Recording reservation indicator: RE turns ON when recording reservation operates.
- 8. Recording paper status indicator: PED turns ON in running out of recording paper during recording.

9. Channel display part: Displays input channel of currently displayed PV on the PV display part. 10. PV display part: In RUN mode, displays PV of the current channel and in setting mode, displays parameters and mode setting values.

- 11. Unit display part: Displays unit of relevant channel
- 12. [MODE] key: Used to enter setting mode and changing SV mode.
- 13. A, key: Used to move parameters or increase/decrease digits.
 - ጽ key: Digital memo key
 - ≽ key: Recording Run/Stop key
- 14. « key: Used to move parameters to upper group or move digits.
- Paper feeding key (STOP), printing parameter setting information key (RUN)
- 15. PC loader port: It is a PC loader port for serial communication to set or monitor parameters by PC. Used to connect SCM-US (USB to Serial converter, sold separately).