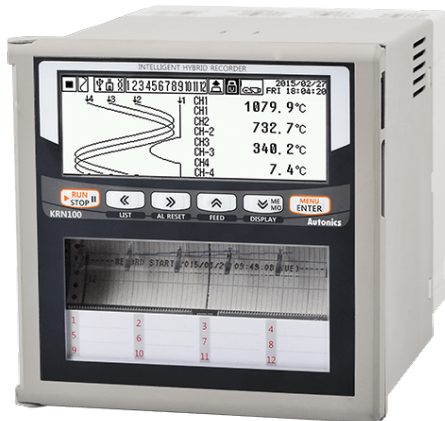**Autonics**

100 mm Hybrid Recorder

KRN100 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

- 100 mm paper recorder
- Enables to record data without paper with the data logger function (internal memory and external memory supported to backup data)
- High speed sampling of 25 to 250ms and high speed record of 240mm / H in high speed graph mode
- 6 recording colors
- Easy parameter setting by quick menu setting
- Enables to set parameters and monitor with USB, RS485, Ethernet communication
- High legibility and setting convenient by graph LCD
- Supports up to 12 channels with slot type input cards
- Supports total 27 kinds of input types (weight, voltage, current, frequency potentiometer, and etc.)
- Installation space saving with compact design (depth: 168 mm)

CE KC EHC

Ordering Information

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

KRN100 - ❶ ❷ ❸ ❹ - ❺ ❻ - 0 S

❶ Input channel
02: 2 CH (universal input card × 1)
04: 4 CH (universal input card × 2)
06: 6 CH (universal input card × 3)
08: 8 CH (universal input card × 4)
10: 10 CH (universal input card × 5)
12: 12 CH (universal input card × 6)

❷ Digital input
0: None
1: 6 (digital input card × 1)
2: 12 (digital input card × 2)

❸ Alarm transistor output
0: None
1: 6 (transistor alarm output card × 1)
2: 12 (transistor alarm output card × 2)

❹ Alarm relay output
0: None
1: 4 (relay alarm output card × 1)
2: 8 (relay alarm output card × 2)
3: 12 (relay alarm output card × 3)

❺ Transmitter power output
0: None
1: 3 (transmitter power output card × 1)
2: 6 (transmitter power output card × 2)
3: 9 (transmitter power output card × 3)
4: 12 (transmitter power output card × 4)

❻ Communication output
0: None
1: RS485 / Ethernet / USB (communication output card × 1)

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.

Product Components

- Product
- Recording paper
- Instruction manual
- USB memory
- Ink cartridge
- Bracket × 2
- Basic connector × 2 (the no. of additional connectors depends on the input/output card.)

Sold Separately

- Universal input card: KRN-UI2
- Transistor alarm output card: KRN-AT6
- Transmitter power output card: KRN-24V3
- Digital input card: KRN-DI6
- Relay alarm output card: KRN-AR4
- Communication output card: KRN-COM

Specifications

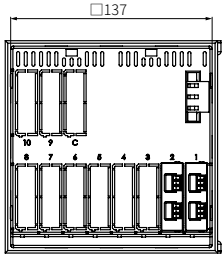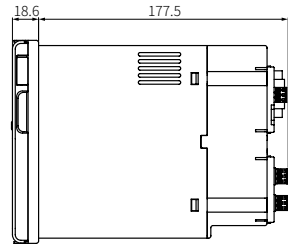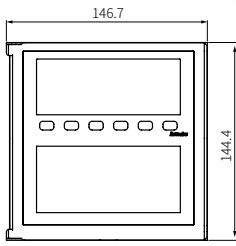| Series	KRN100
LCD type	STN Graphic LCD
Resolution	320 × 120 pixel
Brightness adjustment	4-level (OFF / Min / Standard / Max)
Backlight	White LED, 2-level (Temp / Always)
No of input channel	2 / 4 / 6 / 8 / 10 / 12 CH model (2 CH / universal input card)
Universal input	Please refer to 'Input / Output' for detailed information about universal input.
Sampling cycle[01]	1 to 4 CH: 25 ms / 125 ms / 250 ms, 5 to 12 CH: 125 ms / 250 ms (thermocouple (TC) - R, U, S, T: ≥ 50 ms)
Graph mode recording speed	10, 20, 40, 60, 120, 240 mm / H
Recording speed accuracy	F.S. ± 0.5 %
Saving cycle	1 to 3600 sec (inner log file is saved at 1 sec interval)
Internal memory	512 MB
External memory[02]	USB memory max. 32 GB
Recording paper	113 mm × 9 m
Ink cartridge	Normal printing is available after going and returning printing maximum 5 times within 7 days after opening the unit
Ink dry time	≤ 15 minutes

01) Internal sampling cycle is average movement filter and alarm output operation unit time.
02) USB memory is included in the box. If you use USB memory you purchased separately, it could not be recognized.
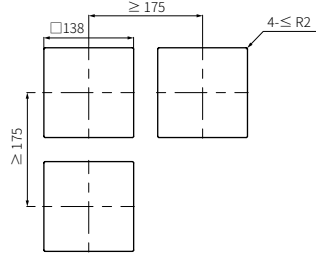
Power supply	100-240 VAC∼ 50 / 60 Hz
Allowable voltage range	85 to 110 % of rated power supply
Power consumption	≤ 23 VA
Dielectric strength	Between power terminals and case: 2500 VAC∼ 50 / 60 Hz for 1 minute (except Ethernet and USB device)
Vibration (conveying and storing)	10 to 60 Hz 4.9 m / s² X, Y, Z in each X, Y, Z direction for 1 hour
Vibration (operating)	10 to 60Hz 1 m / s² X, Y, Z in each X, Y, Z direction for 10 minutes
Insulation resistance	≥ 20 MΩ (500 VDC megger)
Noise immunity	± 2 kV square wave noise (pulse width 1 μs) by noise simulator
Time accuracy	Within ± 2 min / year (available up to 2100 year)
Protection structure	IP50 (front part, IEC standard)
Ambient temperature	0 to 50 °C, storage: -20 to 60 °C (without the ink cartridge, no freezing or condensation)
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)
Approval	CE KC EHC
Unit weight (packaged)	≈ 1.7 to 2.0 kg (≈ 2.4 to 2.7 kg)

Dimensions

• Unit: mm, For the detailed drawings, follow the Autonics website.

146.7

144.4

18.6 177.5

□137

■ Panel cut-out

□138

≥ 175

≥ 175

4-≤ R2

■ Bracket

67.5

52

13.3

BRACKET
FIXING BOLT