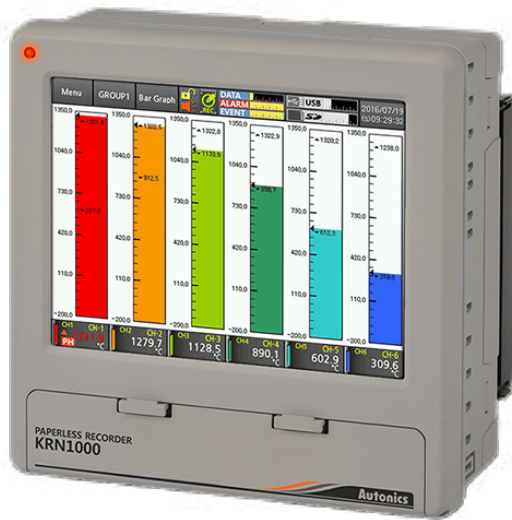**Autonics**

LCD Touchscreen Paperless Recorder

KRN1000 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

- 5.6-inch color TFT LCD (640 × 480) touchscreen display with excellent readability and intuitive control interface

- Supports maximum 16 input channel and 27 input types

- Various communication methods (default option: RS422 / 485, Ethernet, USB)

- 25 to 250 ms high-speed sampling, 1 to 3600 sec recording cycle

- 200 MB internal memory and external SD / USB memory (up to 32 GB) support

- Store and backup internal data to external SD / USB memory

- 9 different graph types available

- 4 types of option input / output available:
  digital input (non-contact / contact), alarm output, power output for transmitter

- Compact, space-saving design (depth: 69.2 mm)

CE KC EHC ⊕

Ordering Information

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

KRN1000	-	❶	❷	1	-	0	S

❶ Number of input CH
04: 4 CH
08: 8 CH
12: 12 CH
16: 16 CH

❷ Option input / output
0: None
1: Alarm relay output 8 CH
2: Alarm relay output 6 CH + digital input 2 CH
3: Alarm relay output 6 CH + 24 VDC⎓ power for transmitter
4: Alarm relay output 4 CH + digital input 2 CH
   + 24 VDC⎓ power for transmitter

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 (+terminal cover)
- USB memory
- Instruction manual
- Bracket × 4
- Resistance (250 Ω) (N = input CHs)
- Basic model connector × 2
- Option model connector × 6

Specifications

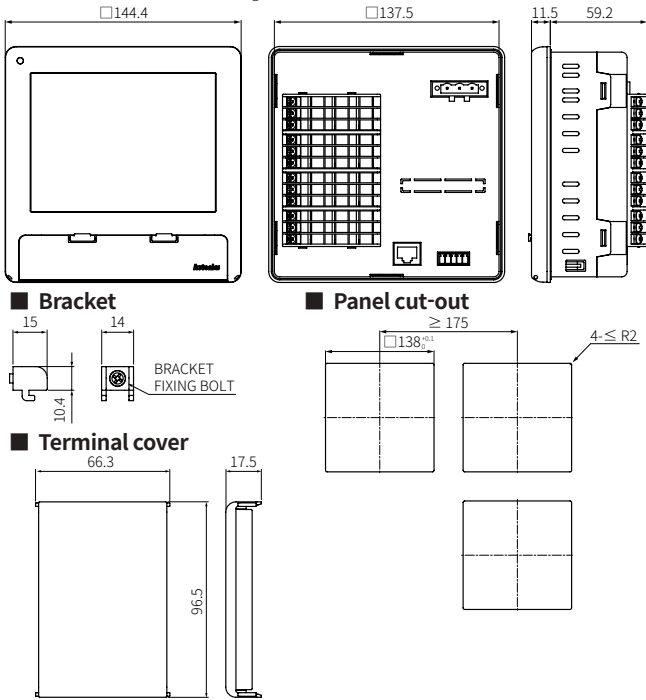| Series	KRN1000
Screen size	5.6 inch
LCD type	TFT Color LCD
Resolution	640 × 480 pixel
Brightness adjustment	3-level (Min. / Standard / Max.)
Touch	Resistive type
No of input channel	4 / 8 / 12 / 16 CH model
Universal input	Please refer to 'Input / Output' for detailed information about universal input.
Sampling cycle[01]	1 to 4 CH: 25 ms / 125 ms / 250 ms, 5 to 16 CH: 125 ms / 250 ms
Recording cycle	1 to 3,600 sec
Internal memory	≈ 200 MB
External memory[02]	SD / USB memory maximum 32 GB

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.

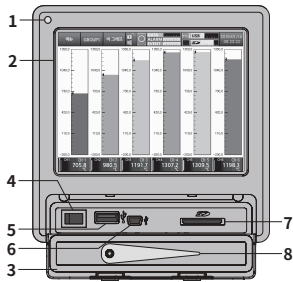| Power supply	100-240 VAC∼ 50 / 60 Hz
Allowable voltage range	85 to 110 % of rated power supply
Power consumption	≤ 23 VA
Dielectric strength	2,300 VAC∼ 50 / 60 Hz for 1 minute (between power terminals and case) (except Ethernet and USB device)
Vibration	10 to 60 Hz 4.9 m / s² X, Y, Z in each X, Y, Z direction for 1 hour
Vibration (malfunction)	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	Square shaped noise by noise simulator (pulse width 1 μs) ± 2 kV
Time accuracy	Within ± 2 min / year (available up tp 2099 year)
Protection structure	IP50 (front part, IEC standard)
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	CE KC EHC ⊕
Unit weight (packaged)	≈ 590 to 700 g (≈ 1,290 to 1,400 g)

Dimensions

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

□144.4 □137.5 11.5 59.2

■ Bracket

15 14

BRACKET
FIXING BOLT

10.4

■ Panel cut-out

≥ 175

□138 $^{+0.1}_{0}$

4-≤ R2

■ Terminal cover
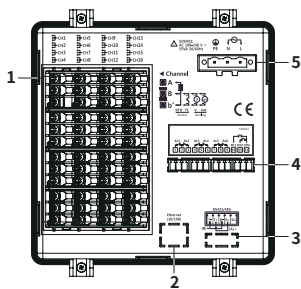
66.3 17.5

96.5

Unit Descriptions

■ Front

1. Power indicator
Red LED turns ON when the power is supplied.
2. Screen
Measured value is displayed as trend graph, bar graph, or digital figures.
3. Front cover
In the cover, there are power switch and, USB Host / Device, and SD card slot.
4. Power switch
It tuns on / off the power.
5. USB Host port
It is for connecting USB memory. It recognizes up to 32 GB. When using extension cable, cable length should be shorter than 1.5m. Do not connect any USB device except USB memory.
6. USB Device port
It is for setting parameter.
7. SD card slot
It is SD card memory slot. It recognizes up to 32 GB.
8. Stylus pen
It is used for touching the screen.

■ Back

1. Sensor input terminal
It is for connecting universal input.
2. Ethernet port
It is for connecting Ethernet cable. It communicates Modbus TCP.
3. RS422 / 485 port
It is for connecting RS422 / 485 for Modbus RTU communication.
4. Option input / output port
It is for connecting option input / output (digital input (non-contact / contact) and alarm output, power for transmitter)
5. Power input terminal
It is for connecting the power.