Ubiquitous Recorder KR5000



KR series is a network-compatible Recorder, capable of recording up to 128 channels of field measurement data through Internet web browser window and easy data transfer by FTP or E-mail without use of any special software.

■ FEATURES

- Monitoring screen designed in the html form, So any personal computer can read-out the loaded data without special application software.
- Display by vertical/horizontal real time trend, digital data, bar graph, alarm condition or group display of 8 screens in one.
- Automatically transfer (FTP client) the data file to a server.
- E-mail notification at the time of alarm generating and the abnormalities in apparatus.
- MODBUS instrument, field scanner, recorder and controller are connectable.

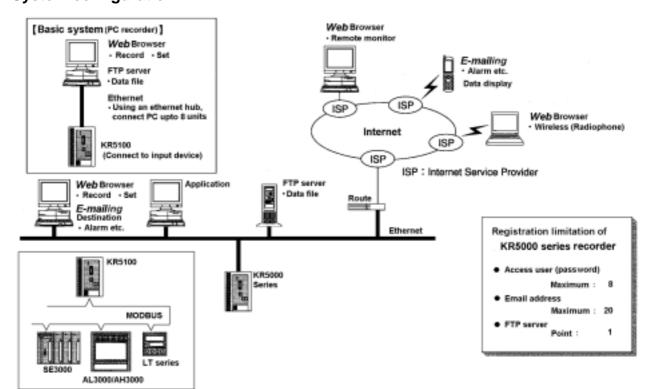


■ MODELS

KR 5 00-000
Instrument interface
1: MODBUS
SE3000,
AH3000/AL3000,

LT series

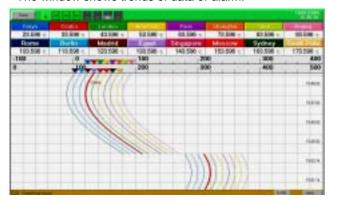
■ System configuration



■ Web Display Windows

• Real-time trend display window

The window shows trends of data or alarm.



• Window Partition

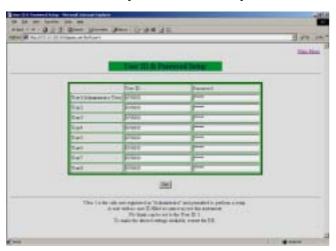
Window can be partition to 8 for one group display.



Over-view window



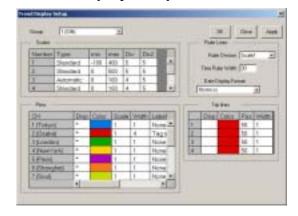
• User-ID and password setup



• Bar-graph display window



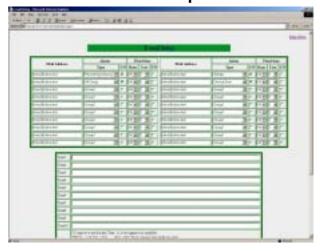
• Trend display setup



• Alarm display window

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• E-mail account setup





■ SPECIFICATIONS

Input function

Input points: Up to 128 points of registered data

Input interval: 1second / All points

Group register: Group name, connected instruments number,

tag name, unit, input operate (moving average,

arithmetic expression)

*16 channels are connectable per one group

*Up to 8 groups can be registered

Web Display Specifications

Trend display: Real-time or historical trend display

*Selectable from horizontal and vertical scroll.

*Prepare graph window for each registered group.

Manual/auto-scale and logarithmic scale

(Up to 8 scales can be used simultaneously.)

*Input of desired comments message

32 colors are selectable for each group

Historical trend display: specified time section display, message, alarm-jump/scrollbar operate/readout

stored files, change time-scale, etc.

Bar Graph: Selectable from horizontal and vertical scroll.

*Prepare a graph window for each registered group.

*Color and scale are common to trend display

Data display: Data value display and alarm status (the color is

selectable)

*Prepare a graph window for each registered group.

*Indicating color is common to trend display.

Screen partition display: Screen partition to a maximum of 8.

Input of desired comments message

Overview: Display measuring data, Alarm status.

Renew each 10 seconds.

Information display: Alarm, message, file list, etc. Setting screen: Ethernet; FTP; E-mail; Users ID;

Input instrument; clock.

• Recording Function

Internal memory: 128MB

Record method: continuous record, start/stop operate, event

record, external trigger, start/stop time.

Recording intervals: more than 1 second

Number of loading file: Select 128 recording points ...31 files

Select 64 recording points ... 63 files Select 32 recording points ... 127 files Select 16 recording points ... 255 files

*7824 data per channel can be stored to 1 file.

Data file form: Binary

Alarm memory: 200 events. Stored in CSV file

Alarm Specifications

Setups: Up to 4 alarms can be set per channel.

Alarm types: Higher limit, lower limit, variation higher limit,

variation lower limit, device-identified alarm,

abnormal data.

Alarm outputs: 2 relay output, or designated channel.

Delay function: Setup of alarm delay of 1 to 3600 second.

Computation Specifications

Computation types:

Arithmetic operations: Addition, subtraction, multiplication,

division, remainder, power

Comparison operations: Equality, inequality, more, less

Logic operations: AND, OR, XOR, NOT

General functions: Raise fractions, omit fractions,

absolute value, square root, exponent of e, natural logarithms, common

logarithms

Statistics operation: Sum or average for data and channel Integration operation: Analog integration, pulse integration

General Specifications

Rated supply voltage: 100-240VAC,

50/60Hz (free power supply)

Power consumption: 27VA max

Normal Operating condition:

Ambient temperature/humidity range: 0-50°C, 20-80%RH

Supply voltage: 90-264V AC Supply frequency: 50/60Hz ±2%

Power failure countermeasures:

Setups are backed up by an EEPROM.

Data backups by flash memory.

A lithium battery backs up the clock and data RAM for 3 years or more (assuming 8 hours of operation per day).

Mounting: DIN rail mounting Weight: Approx. 850g

■ COMMUNICATION FUNCTIONS

Network

Communication type: Ethernet (10BASE-T or 100BASE-TX)
FTP client: Auto transfer of recording data files to FTP server
* Registration: Server's IP address, password,

data path name.

Registered data transfer:

Recorded data file can be transferred by user's register.

Web-sever: Conform to HTTP1.0

Display the alarm, information of maintenance by browser software (Internet Explorer 5.0 or later, Net Scape6.0 or later, Opera 7 or later)

* Registration: User's ID, password, mail account

E-mail: Email will be sent to maximum 20 addresses when alarm occurred, or instrument on, or at

specified time.

The message text in E-mail will be 10-template.

Sent at an alarm output, setup and specified time of day

Serial communication: RS-232C (for support)

*9600bps, 8bit, stop bit 1, no parity

Instrument interface

Instrument interface: MODBUS

Communication: RS-485 (connectable up to 31 instruments)

Read out: Measuring data, alarm

Transmission: Setting data (Limited in connected instruments)

Connectable instruments:

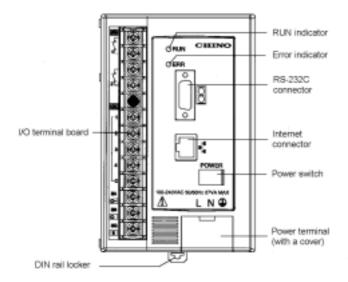
SE3000,

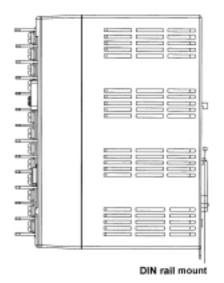
AL3000/AH3000 series,

LT230, LT350, LT370, LT450, LT470

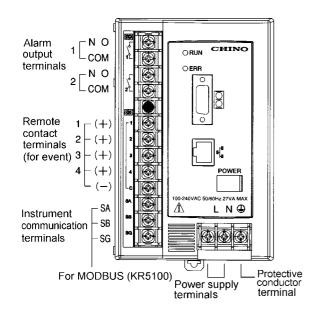


■ NAME OF PARTS

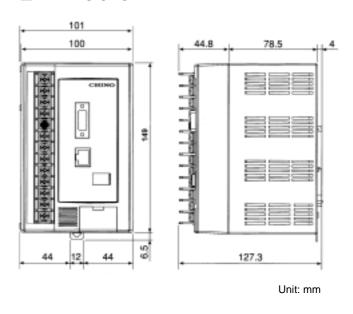




■ TERMINAL BOAD



■ DIMENSIONS



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