

PC Recorder Series

MSRpro SOFTWARE PACKAGE Ver.6

Functions & Features

- Industrial recorder on Windows based PC
- Stores, computes and plots in high speed multichannel input data of variety
- Client-server system
- Total of 2048 analog-discrete mixed input channels
- 100 msec. high speed storing mode
- Recorded data is exportable to other Windows applications in CSV format
- Daily, monthly, annual report can be created by using report software
- Power demand monitoring is available with power monitor software
- Available as gas demand monitoring
- Batch recording is available with client software

Client/Analyzer Software, English/Japanese version

Report software MSRpro-Report

Power monitor software MSReco

Power monitor client software MSReco-client

MSRpro Data Conversion Tool

Users manuals for each software program

DATA INPUT INTERFACE

Modbus RTU interface: Connects to RS-232-C

(COM1 through COM8) via an RS-485/ RS-232-C converter; 38.4 kbps

Modbus/TCP interface: 100-Mbps LAN interface compatible with Windows

MODEL: MSR2K-V6

ORDERING INFORMATION

- Code number: MSR2K-V6

RELATED PRODUCTS

- Remote I/O R3 series
Network module for Modbus/TCP (Ethernet)
(model: R3-NE1)
Network module for Modbus (model: R3-NM1)
- Remote I/O R5 series
Network module for Modbus/TCP (Ethernet)
(model: R5-NE1)
Network module for Modbus (model: R5-NM1)
- Modbus I/O module (model: R7M, R7E)
- Ethernet communication adaptor (model: 72EM-M4 (firmware version V1.01.03 or higher), 72EM2-M4, GR8-EM)
- RS-232-C/RS-485 converter (model: R2K-1)
- Remote I/O R1M series, R2M series, R1MS, RZMS, RZUS series
- Multi power monitor (models: 52U, 53U, L53U, 54U)
- Multi power transmitter (model: M5XWTU)
- Paperless recorder (models: 73VR21x (Ver.1 is not applicable), 73VR3100)
- Ethernet tower light (model: IT60RE, IT40SRE, IT50SRE, IT60SRE)

PACKAGE INCLUDING...

- CD-ROM (1)
Builder Software, English/Japanese version
Server Software, English/Japanese version

SERVER SOFTWARE (MSR2K-S)

■ HARDWARE REQUIREMENTS

| HARDWARE | REQUIREMENTS |
|--------------------|--|
| PC | IBM PC/AT or compatible |
| Operating system | Windows 7 Professional (32-bit, 64-bit) or Windows 10 Professional (32-bit, 64-bit) (The MSR2K may not operate adequately in certain conditions.) |
| CPU | Pentium IV 2.0 GHz or higher |
| Screen area | XGA (1024 by 768 pixels) or better resolution |
| Display color | 65000 colors (16 bits) |
| Main memory | 512 MB minimum; 1 GB minimum recommended |
| Hard disk area | 80 GB; Use an internal hard disk. *1 |
| I/O hardware | R3-NE1, R3-NM1*2, R5-NE1, R5-NM1*2, R7E, R7M*2, R1M-GH2, R1M-J3, R1M-A1*2, R1M-D1, R1M-P4*2, R1MS-GH3, R2M-2G3, R2M-2H3, RZMS-U9*2, RZUS-U9*2, 52U*4, 53U*2, L53U*2, 54U*2, R7MWTU*2, R7EWTU*2, R9MWTU*2, R9EWTU*2, 73VR21x*3,4, 73VR3100*3,4, IT60RE, IT40SRE, IT50SRE, IT60SRE, M5XWTU*1 |
| CD drive | Windows supported CD drive is used to install the software program. |
| Communication port | LAN card by Windows |

*1. External (e.g. SCSI) devices may impair appropriate performance. Please secure enough hard disk space for the MSR2K data. Recorded data may be periodically transferred to external storage media to allow new data stored.

*2. 100 msec. storing mode is not selectable.

*3. Real-time connection only.

*4. Single node per station. High speed mode is not selectable.

CAUTION: The software's performance largely depends upon the PC's performance including other environmental conditions.

Data sampling may be missed when it is not adequate. The missing parts will be filled with the previously sampled data.

NOTE: When the Server and the Client are used on the same PC, the PC must satisfy the Server's system requirements.

■ **Builder Software & MSRpro V1. Conversion Tool:** Installed and used in the Server PC.

■ SOFTWARE FUNCTIONS

The Server samples data at I/O devices, calculate and store data in files. Stored data is distributed upon request from Clients.

Storing Mode: High speed, Middle speed or Low speed selectable

Data format: Binary, CSV

• **Sampling Rate** (depends upon number of slave devices)

High speed mode: 100 msec.

Middle speed mode: 1 sec.

Low speed mode: 5 sec.

• **Maximum number of I/O signals**

High speed mode: 8 groups (256 points)

Middle/low speed mode: 2048 (Limited to 512 when the Server and the Client are in the same PC.)

• **Data Storing Method**

Normal: Recording is manually initiated and stopped. Data is continuously stored while the recording is on.

Auto: Recording is automatically initiated and stopped at a predefined time (one time only or every day).

Event recording: The Server detects an external event by trigger signal, and stores preset number of samples (max. 120 as pretrigger, max. 1200 as posttrigger) before and after the moment of event.

Remote trigger: Data is automatically recorded while the external trigger condition (input) is true.

Store conditionally (analog): Data is automatically recorded when a specific analog input signal is within a pre-determined range.

• **Storing Rate (reading and plotting)** (selectable per group)

High speed mode: 100, 500 msec.

Middle speed mode: 1, 2, 5, 10, 20, 30 sec., 1 min., 10 min.

Low speed mode: 5, 10, 20, 30 sec., 1 min., 10 min.

• **Computation Functions:** Square root extraction, arithmetic functions, logic functions, segment linearization and temperature/pressure compensation, moving average (between 2 - 5 samples), pulse accumulation (between 0.5 - 24 h)

Alarm: Four stages alarm output. Point of contact outputs to the output modules.

• **Maximum number of I/O stations**

High speed mode: 1 (1 station/1 node only)

Middle speed mode: 8*

Low speed mode: 20* (Only the 53U, 73VR21x Ver.2 and/or M5XWTU can be assigned for the station 9 or later.)

* Max. 15 nodes can be connected per every 72EM(2)-M4 and GR8-EM station. Only 1 node for other Ethernet devices.

COM port connection is available only with Station 1 through 4.

Maximum number of clients: 4

CAUTION: V 1.00x data can be imported into the V 6.00x by using the Conversion Tool.

■ SELECTABLE REMOTE I/O MODULES

• R3 Series Remote I/O

| SIGNAL TYPE | MODELS |
|---|---|
| DC voltage input | R3-SV4, R3-SV4A, R3-SV4B, R3-SV4C, R3(Y)-SV8, R3-SV8A, R3-SV8B, R3-SV8C, R3(S/Y)-SV8N, R3-SV16N, R3Y-SV16 |
| DC current input | R3-SS4, R3(Y)-SS8, R3(S/Y)-SS8N, R3(Y)-SS16N |
| Thermocouple input | R3-TS4, R3-TS8 |
| RTD input | R3-RS4, R3(S)-RS4A, R3(Y)-RS8, R3-RS8A, R3-RS8B |
| Universal input | R3-US4 |
| Discrete input | R3(S/Y)-DA16, R3(Y)-DA16A, R3-DA16B, R3-DA32A, R3-DA64A |
| Discrete output | R3(Y)-DC16, R3-DC16A, R3-DC16B, R3-DC16C, R3-DC32A, R3-DC32C, R3-DC64A, R3-DC64C |
| Discrete I/O | R3(S)-DAC16*, R3(S)-DAC16A* |
| 4 – 20mA input with excitation supply | R3(Y)-DS4, R3-DS8N, R3(Y)-DS8N |
| Potentiometer input | R3-MS4, R3(Y)-MS8 |
| CT input | R3-CT4 |
| AC current input with clamp-on current sensor | R3-CT4A**, R3-CT4B**, R3-CT4C, R3-CT8A**, R3-CT8B**, R3-CT8C |
| PT input | R3-PT4 |
| Zero-phase current input | R3-CZ4 |
| AC power input | R3-WT4, R3-WT4A, R3-WT4B, R3-WTU |
| High speed pulse input | R3-PA4 |
| Speed/position input | R3-PA2 |
| Totalized pulse input | R3-PA4A, R3-PA4B, R3(Y)-PA16, R3(S)-PA8 |
| Strain gauge input | R3-LC2 |
| Alarm | R3-AD4, R3-AR4, R3-AS4, R3-AS8, R3-AT4, R3-AV4, R3-AV8 |
| Gateway | R3-GC1, R3-GD1, R3-GE1, R3-GFL1, R3-GM1 |

* Only continuous output mode is available.

** Data range must be setup with the PC Configurator Software R3CON and the dedicated cable.

• R3 Series Interface Modules

| NETWORK | MODELS |
|-------------------------|--------|
| Modbus Network Module | R3-NM1 |
| Ethernet Network Module | R3-NE1 |

• R1M, R2M, RZxS Series I/O Modules

| MODBUS MODULE SIGNAL TYPE | MODELS | |
|------------------------------|-----------------|---------|
| | R1M, RZMS, RZUS | R2M |
| DC Voltage input | R1M-GH2 | R2M-2G3 |
| Thermocouple input | R1MS-GH3 | R2M-2H3 |
| DC Current input | RZM(U)S-U9 | |
| RTD input | R1M-J3 | |
| Potentiometer input | RZM(U)S-U9 | |
| Discrete input | R1M-A1 | |
| Discrete output | R1M-D1 | |
| Pulse input | R1M-P4 | |
| Totalized pulse input | R1M-A1, R1M-P4 | |

• R5 Series Remote I/O

| SIGNAL TYPE | MODELS |
|--|--------------------------|
| DC voltage input | R5-SV, R5T-SV |
| DC current input | R5-SS, R5T-SS |
| Thermocouple input | R5-TS, R5T-TS |
| RTD input | R5-RS, R5T-RS |
| Discrete input | R5-DA4, R5T-DA4, R5-DA16 |
| Discrete output | R5-DC4, R5T-DC4, R5-DC16 |
| 4 – 20mA input with excitation supply | R5-DS, R5T-DS |
| Totalized pulse input | R5-PA2, R5T-PA2 |
| Potentiometer input | R5-MS |
| CT input | R5T-CT |
| AC current input with clamp-on current sensor* | R5T-CTA, R5T-CTB |
| PT input | R5T-PT |

* Data range must be setup for use with the PC Recorder using the PC Configurator Software R5CON and the special cable.

• R5 Series Interface Modules

| NETWORK | MODELS |
|-------------------------|--------|
| Modbus Network Module | R5-NM1 |
| Ethernet Network Module | R5-NE1 |

• R7M Series Remote I/O*

| SIGNAL TYPE | MODELS |
|-----------------------------|--|
| DC voltage/current input | R7M-SV4 |
| Thermocouple input | R7M-TS4 |
| RTD input | R7M-RS4 |
| Potentiometer input | R7M-MS4 |
| CT input | R7M-CT4E |
| Totalized pulse input | R7M-PA8 |
| Discrete input | R7M-DA16 |
| Discrete output | R7M-DC16A, R7M-DC16B, R7M-DC8C |
| Discrete input (Extension) | R7M-EA8, R7M-EA16 |
| Discrete output (Extension) | R7M-EC8A, R7M-EC8B, R7M-EC16A, R7M-EC16B |

* Must be setup with R7X Configurator Software and the dedicated cable.

• **R7E Series Remote I/O**

| SIGNAL TYPE | MODELS |
|-----------------------------|---|
| DC voltage/current input | R7E-SV4 |
| Thermocouple input | R7E-TS4 |
| RTD input | R7E-RS4 |
| Potentiometer input | R7E-MS4 |
| CT input | R7E-CT4E* |
| Discrete input | R7E-DA16 |
| Discrete output | R7E-DC16A, R7E-DC16B |
| Discrete input (Extension) | R7E-EA8, R7E-EA16 |
| Discrete output (Extension) | R7E-EC8A, R7E-EC8B, R7E-EC16A, R7E-EC16B |

* Must be setup with R7X Configurator Software and the dedicated cable.

• **Multi Power Monitor**

| SIGNAL TYPE | MODELS |
|---------------------|-----------|
| Multi power monitor | 52U |
| | 53U, L53U |
| | 54U |

• **Multi Power Transmitter**

| SIGNAL TYPE | MODELS |
|-------------------------|--------|
| Multi power transmitter | M5XWTU |

• **Multi Power Monitoring Module**

| SIGNAL TYPE | MODELS | |
|-----------------------------|---------------------|------------|
| Multi power unit (Modbus) | R7MWTU | |
| | R9MWTU | |
| Multi power unit (Ethernet) | R7EWTU | |
| | R9EWTU | |
| Extension module | Discrete input | R7MWTU-EA8 |
| | Discrete I/O | R9WTU-ED16 |
| | Multi power monitor | R9WTU-EP8 |

Must be setup with R7xWTU, R9xWTU Configurator Software and the dedicated cable.

• **Paperless Recorder**

| NETWORK | MODELS |
|---|--------------------------|
| Built-in input module paperless recorder | 73VR21x (Ver. 2, Ver. 3) |
| Selectable input modules paperless recorder | 73VR3100 |

• **ETHERNET Tower Light**

| SIGNAL TYPE | MODELS |
|-----------------|--------------------------------------|
| Discrete output | IT60RE, IT40SRE, IT50SRE, IT60SRE |

CLIENT/ANALYZER SOFTWARE (MSR2K-C)

■ HARDWARE REQUIREMENTS

| HARDWARE | REQUIREMENTS |
|--------------------|---|
| PC | IBM PC/AT or compatible |
| Operating system | Windows 7 Professional (32-bit, 64-bit) or Windows 10 Professional (32-bit, 64-bit) |
| CPU | Pentium IV 2.0 GHz or higher |
| Screen area | XGA (1024 by 768 pixels) or better resolution; SXGA (1280 by 1024 pixels) recommended to show 50 or more groups |
| Display color | 65000 colors (16 bits) |
| Main memory | 512 MB minimum; 1 GB minimum recommended |
| CD drive | Windows supported CD drive is used to install the software program. |
| Communication port | LAN card by Windows |

NOTE: When the Server and the Client are used on the same PC, the PC must satisfy the Server's system requirements.

■ SOFTWARE FUNCTIONS

The Client/Analyzer displays data on the screen and performs data setting. The Client can be installed in a separate PC from the one installed with the Server.

• Data Display

Number of display channels: 32 pens are grouped to be displayed on one view; 64 groups in total for 2048 channels.

• Real Time Trend Display

Perpendicular chart: The latest data at the top or the bottom selectable

Horizontal chart: The latest data at the right or the left selectable

Pen position indicator: Marker, digital value, bargraph or color graph

Overview: Displays data for the all channels within a group (32 pens) or 4 groups (128 pens)

Graphic panel: Displays data on a graphic background

Real time analyzer: Overlapping, masking

• Batch Operation

Batch operation storing: Starts/stops batch operation data storing in specific conditions per group (32 pens), and stores data in CSV file at a specified location

Storing rate: 1, 2, 5, 10, 20, 30 sec., 1, 10 minutes

Real time trend display: Displays batch data currently in operation with a specified background color

Trend retrieval: Displays batch data spread in the past

Compare: Overlapping a presently stored data on a past data, or multiple sets of retrieved data

Maximum data volume: 65000 rows; 36 hours or 65000 rows, whichever comes first, with the end condition set to 'time'

• Trend retrieval

Alarm history: Historical data indicating the time indexes when an alarm is triggered and reset.

• Analyzer

Enlarge: Enlarges the area by mouse clicking

Compare: Overlapping multiple sets of retrieved data

Search: Maximum value, minimum value, conditioning, rising/sinking edges

Maximum number of clients: 4

CAUTION: The MSR128 data cannot be imported into the MSR2K.

■ I/O DEVICE

Depends on I/O device of server software (model: MSR2K-S).

REPORT SOFTWARE (MSR2K-CR)

■ HARDWARE REQUIREMENTS

| HARDWARE | REQUIREMENTS |
|--------------------|---|
| PC | IBM PC/AT or compatible |
| Operating system | Windows 7 Professional (32-bit, 64-bit) or Windows 10 Professional (32-bit, 64-bit) |
| CPU | Pentium IV 2.0 GHz or higher |
| Screen area | XGA (1024 by 768 pixels) or better resolution |
| Display color | 65000 colors (16 bits) |
| Main memory | 512 MB minimum; 1 GB minimum recommended |
| CD drive | Windows supported CD drive is used to install the software program. |
| Communication port | LAN card by Windows |

NOTE: When the Server Software (model: MSR2K-S) and the Report Software (model: MSR2K-CR) are used on the same PC, the PC must satisfy the Server's system requirements.

■ SOFTWARE FUNCTIONS

Creating reports by using data collected with the MSRpro-Server software program.

- **Data acquisition**

Data type: Average, maximum, minimum, accumulation difference, momentary, and accumulation values

- **Report**

Report type: Daily, monthly, and annual reports

Layout: max. 16 pens per page

Max. page number: 128 pages for each report

Display digit: 12 digits including signs

- **Data correction**

Applicable to: Daily, monthly, and annual reports

Correction process: Calculating summary items automatically

- **Data storage**

Storage method: Saved as a report file in any location

Storage period: Depends on the period the server saves

- **Print**

Applicable to: Daily, monthly, and annual reports

Color printing: Available

Auto printing: Available to specify print time and report

Manual printing: Available to specify report

- **Format**

Page title: Per report page, max. 24 characters

Date: Available to display

Signature column: 0 to 4 columns

Summary items: Total, average, maximum and minimum

Note) The software creates a report with server software Ver.3 or later.

■ I/O DEVICE

Depends on I/O device of server software (model: MSR2K-S).

POWER MONITOR SOFTWARE (MSR2K-CE)

■ HARDWARE REQUIREMENTS

| HARDWARE | REQUIREMENTS |
|--------------------|---|
| PC | IBM PC/AT or compatible |
| Operating system | Windows 7 Professional (32-bit, 64-bit) or Windows 10 Professional (32-bit, 64-bit) |
| CPU | Pentium IV 2.0 GHz or higher |
| Screen area | XGA (1024 by 768 pixels) or better resolution |
| Display color | 65000 colors (16 bits) |
| Main memory | 512 MB minimum; 1 GB minimum recommended |
| CD drive | Windows supported CD drive is used to install the software program. |
| Communication port | LAN card by Windows |

NOTE: When the Server Software (model: MSR2K-S) and the Power Monitor Software (model: MSR2K-CE) are used on the same PC, the PC must satisfy the Server's system requirements.

■ SOFTWARE FUNCTIONS

Max. 32 of demand monitoring views are displayed by using data collected with the server software program.

• Display function

Data display: Present demand value, predicted demand value, target demand value, energy consumption, surplus power, alarm status

Demand display: Present demand line, predicted demand line, target demand line, alarm line are displayed.

Energy consumption graph: Energy consumption at every 15, 30 or 60 min. is displayed with bargraph.

Information (Demand) view: Max. daily demand value, max. monthly demand value or max. annual demand value is displayed.

Information (Bargraph) view: Max. energy consumption per day, month or year is displayed.

Max. view numbers: Max. 32 views for demand and bargraph view (16 views max. for demand and 2 views max. for bargraph are available simultaneously. Gas demand monitoring is available by selecting the unit.

• Demand monitoring function

Time unit: 15 min., 30 min. or 60 min.

Sampling cycle: 10 seconds

Calendar setting: Register pattern schedules in an annual calendar on a daily basis

Pattern setting: 128 pattern

Alarm: Up to 4 alarm setpoints can be set for the predicted demand. Alarm outputs to discrete output devices.

Setpoints can be set for each demand view. Buzzer of your PC can be set when an alarm is generated.

When connecting with the model ITx0(S)RE, ITx0(S)RE buzzer individually can be on beside normal alarm output.

The buzzer can be stopped in the alarm monitor view. (the buzzer stops in all demand view pages. Operation per page is not available.)

Alarm Monitor: Alarm status of each Demand view page is listed. An alarm Monitor window is popped up when an alarm is generated.

Alarm history: History of alarm generation or clear is displayed.

• Report function

Printer output: daily, monthly or annual demand report is automatically or manually printed.

File output: Reports can be saved as a CSV file automatically or manually.

Screen shot: A screen shot is saved in BMP format.

Max. MSR2K-CEC connection numbers: 4

■ I/O DEVICE

Supported device is accumulated pulse input device when pulse signal from power meter is used.

• R3 Series Remote I/O

| SIGNAL TYPE | MODELS |
|-----------------------|--|
| Totalized pulse input | R3 (Y)-PA16, R3 (S)-PA8, R3-PA4A, R3-PA4B |
| AC power input | R3-WT4, R3-WT4A, R3-WT4B, R3-WTU |

• R5 Series Remote I/O

| SIGNAL TYPE | MODELS |
|-----------------------|-----------------|
| Totalized pulse input | R5-PA2, R5T-PA2 |

• R1M Series I/O Modules

| SIGNAL TYPE | MODELS |
|-----------------------|----------------|
| Totalized pulse input | R1M-P4, R1M-A1 |

• R7 Series I/O Modules

| SIGNAL TYPE | MODELS |
|-----------------------|---------|
| Totalized pulse input | R7M-PA8 |

• Multi Power Monitor

| SIGNAL TYPE | MODELS |
|---------------------|-----------|
| Multi power monitor | 52U |
| | 53U, L53U |
| | 54U |

NOTE: Reading energy consumption data to display demand and bargraph.

• Multi Power Transmitter

| SIGNAL TYPE | MODELS |
|-------------------------|--------|
| Multi power transmitter | M5XWTU |

• Multi Power Monitoring Module

| SIGNAL TYPE | MODELS | |
|--|------------------------|------------|
| Multi power monitoring module (Modbus) | R7MWTU | |
| | R9MWTU | |
| Multi power monitoring module (Ethernet) | R7EWTU | |
| | R9EWTU | |
| Extension module | Discrete input | R7MWTU-EA8 |
| | Discrete I/O | R9WTU-ED16 |
| | Multi power monitoring | R9WTU-EP8 |

• Alarm Output Moduls

| SIGNAL TYPE | MODELS |
|-----------------|--------------------------------------|
| Discrete output | R1M-D1 |
| | R3-DCx |
| | R5-DCx |
| | R7M-DCx/ECx |
| | R7E-DCx/ECx |
| LED, Buzzer | IT60RE, IT40SRE, IT50SRE, IT60SRE |

POWER MONITOR CLIENT SOFTWARE (MSR2K-CEC)**■ HARDWARE REQUIREMENTS**

| HARDWARE | REQUIREMENTS |
|--------------------|---|
| PC | IBM PC/AT or compatible |
| Operating system | Windows 7 Professional (32-bit, 64-bit) or Windows 10 Professional (32-bit, 64-bit) |
| CPU | Pentium IV 2.0 GHz or higher |
| Screen area | XGA (1024 by 768 pixels) or better resolution |
| Display color | 65000 colors (16 bits) |
| Main memory | 512 MB minimum; 1 GB minimum recommended |
| CD drive | Windows supported CD drive is used to install the software program. |
| Communication port | LAN card by Windows |

NOTE: Power Monitor Client Software (model: MSR2K-CEC) does not run in the PC where Power Monitor Software (model: MSR2K-CE) is running.

■ SOFTWARE FUNCTIONS

Reading settings and data of MSReco and displaying demand.

• Display function

Data display: Present demand value, predicted demand value, target demand value, energy consumption, surplus power, alarm status

Demand display: Present demand line, predicted demand line, target demand line, alarm line are displayed.

Bargraph view: Energy consumption at every hour, day, week, month or year is displayed with bar graph.

Information (Demand) view: Max. daily demand value, max. monthly demand value or max. annual demand value is displayed.

Information (Bargraph) view: Max. energy consumption per day, month or year is displayed.

Max. view numbers: Max. 32 views for demand and bargraph view (16 views max. for demand and 2 views max. for bargraph are available simultaneously).

Alarm Monitor: Alarm status of each Demand view page is listed.

Alarm history: History of alarm generation or clear is displayed.

• Report function

Printer output: daily, monthly or annual demand report is automatically or manually printed.

File output: Reports can be saved as a CSV file automatically or manually.

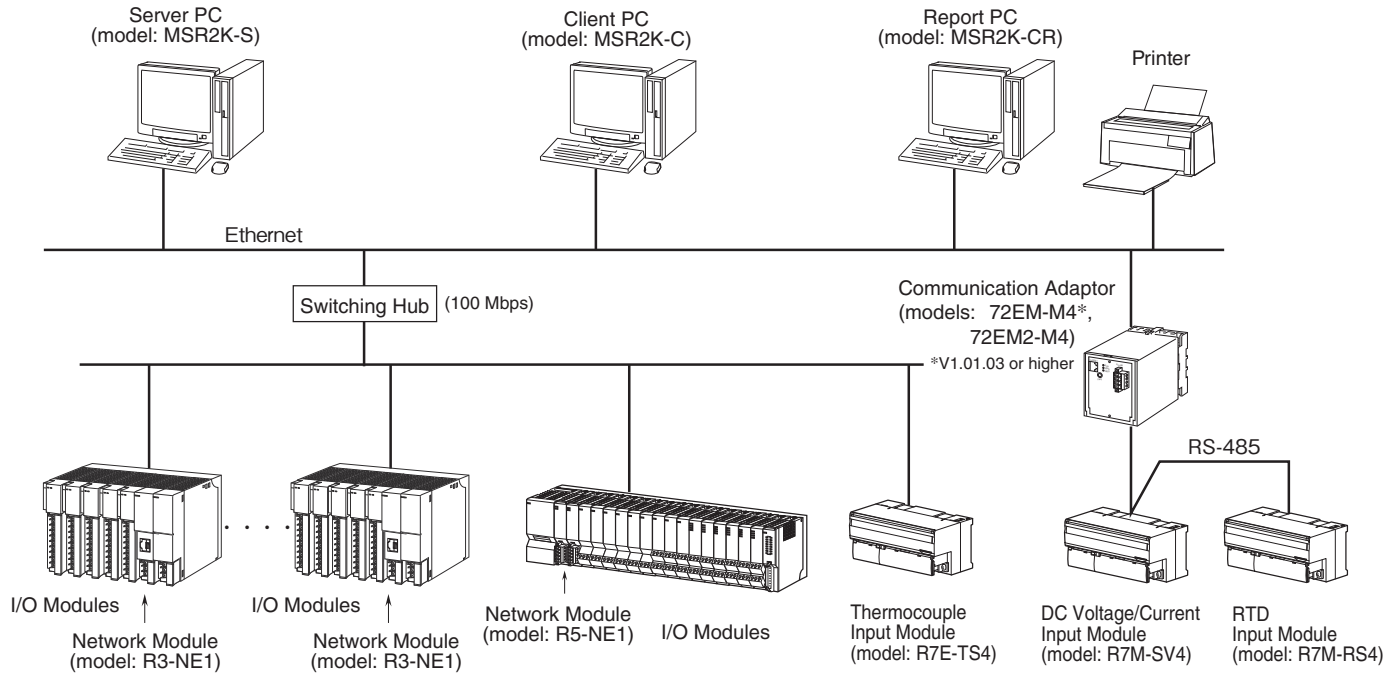
Screen shot: A screen shot is saved in BMP format.

■ I/O DEVICE

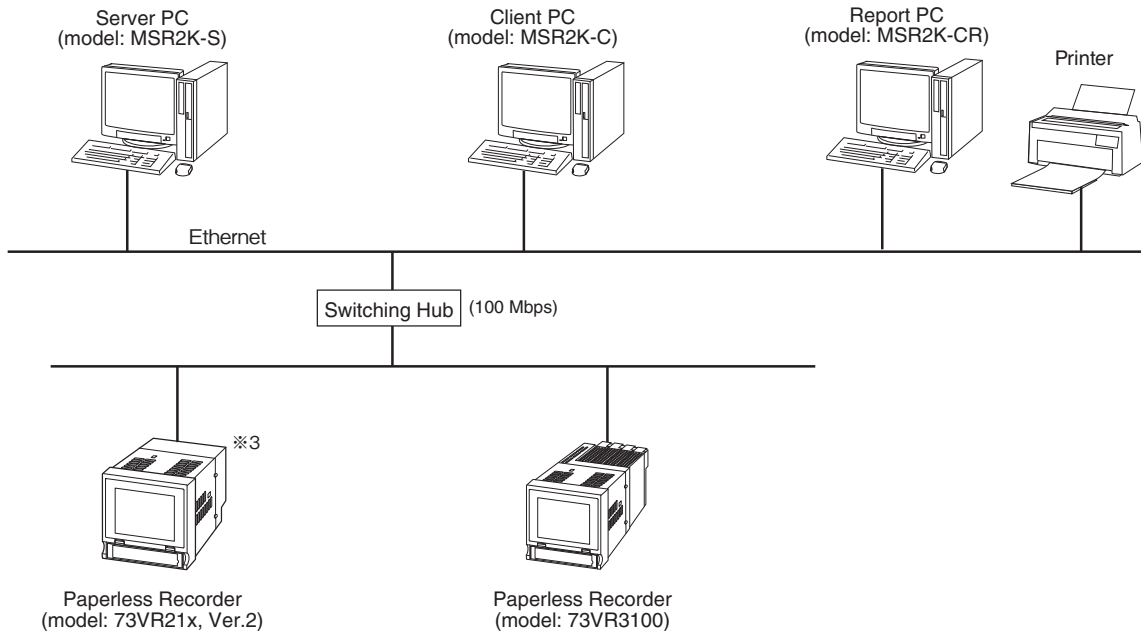
Depends on I/O device of power monitor software (model: MSR2K-CE).

SYSTEM CONFIGURATION EXAMPLES

■ R3, R5, R7 SERIES



■ 73VR SERIES



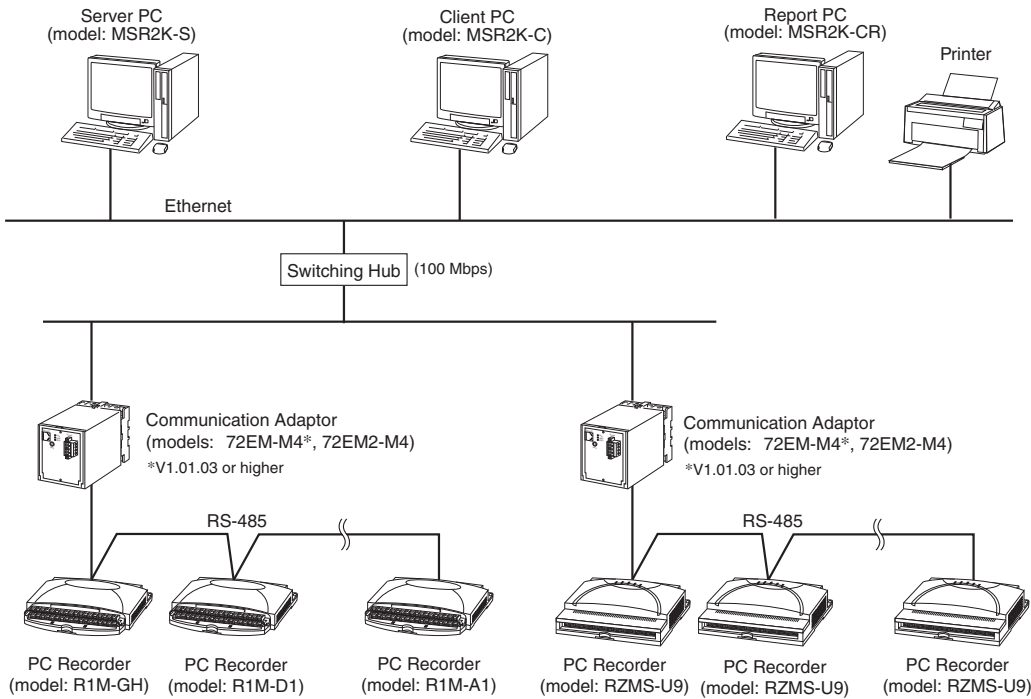
Note 1. Use a dedicated Ethernet network for the PC and the R3 modules.

Note 2. Max. four (4) Client PC.

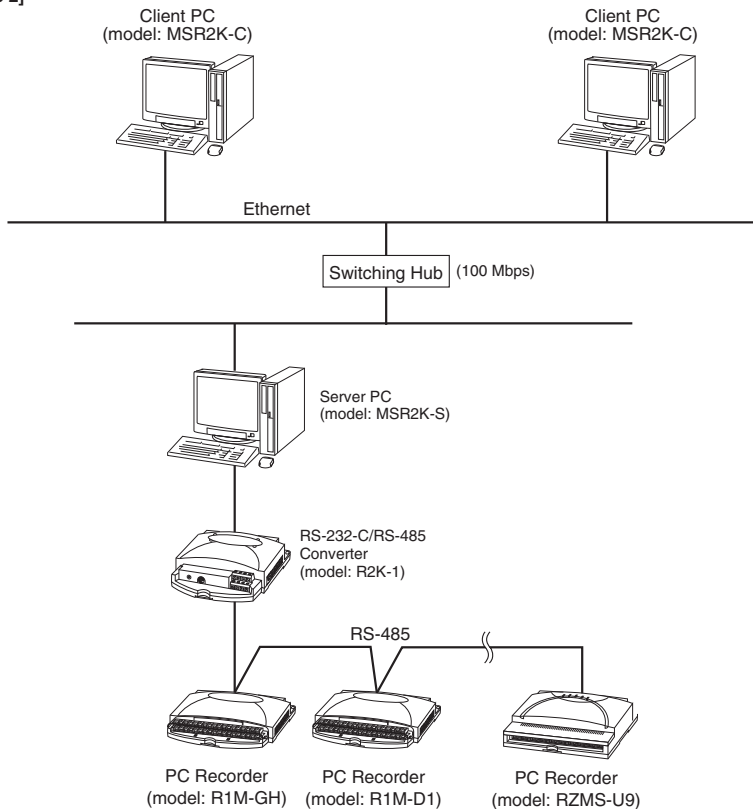
Note 3. Max. eight (8) R3 stations.

Note 4. Actual sampling rate depends upon the number of connected slave devices.

■ R1M, R2M, RZxS SERIES
[Example 1]



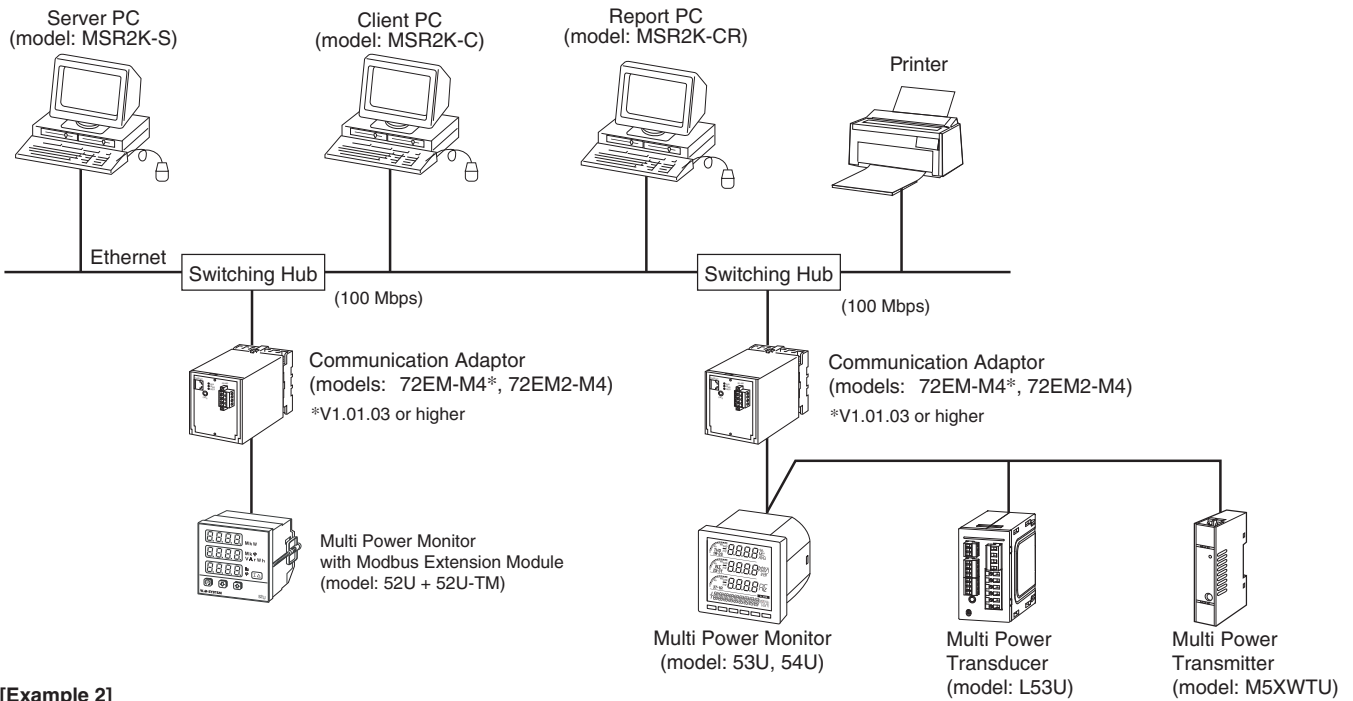
[Example 2]



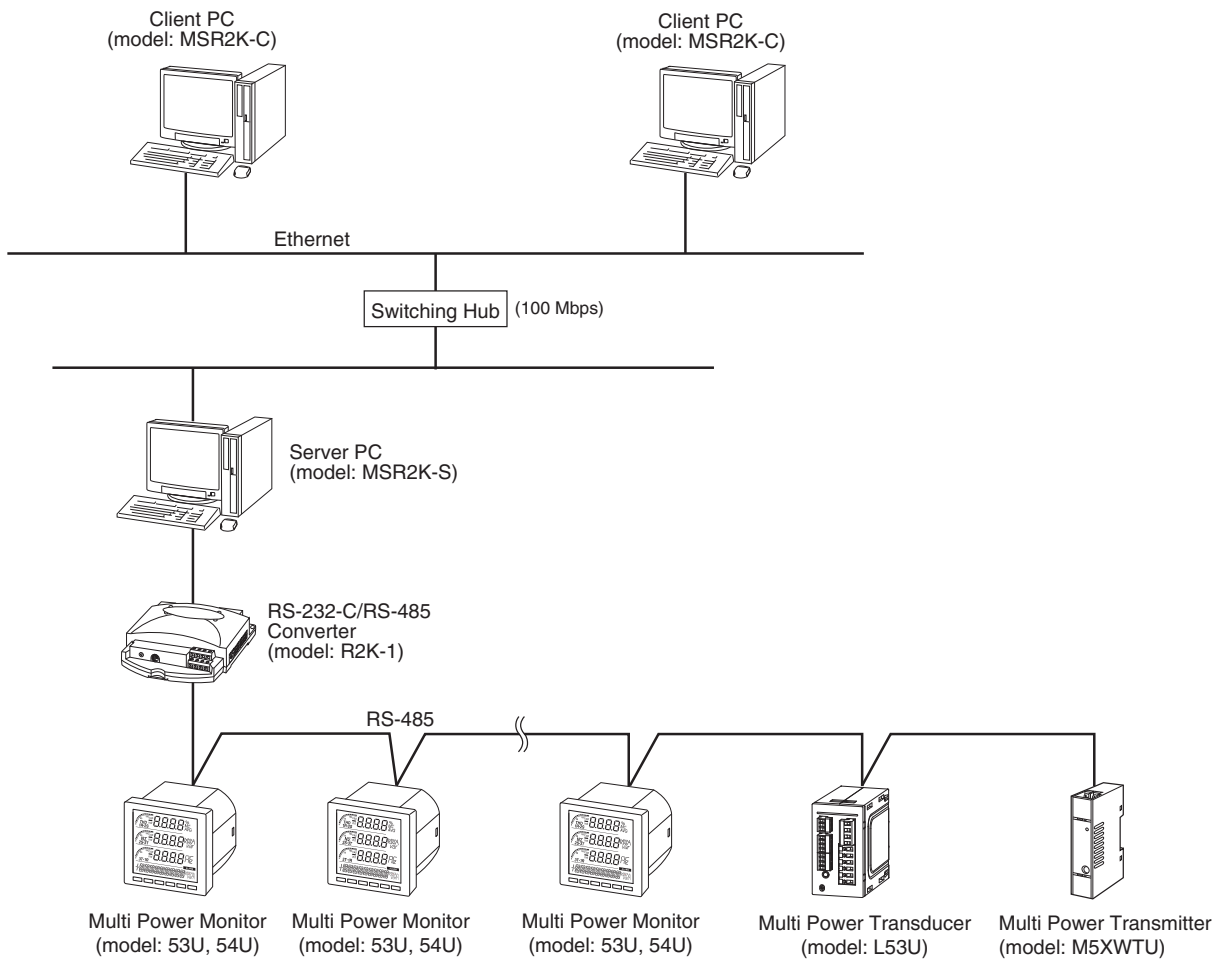
- Note 1. Use a dedicated Ethernet network for the PC and the R3 modules.
- Note 2. Max. four (4) Client PC.
- Note 3. Max. eight (8) R3 stations.
- Note 4. Actual sampling rate depends upon the number of connected slave devices.

■ 52U, 53U, M5XWTU

[Example 1]

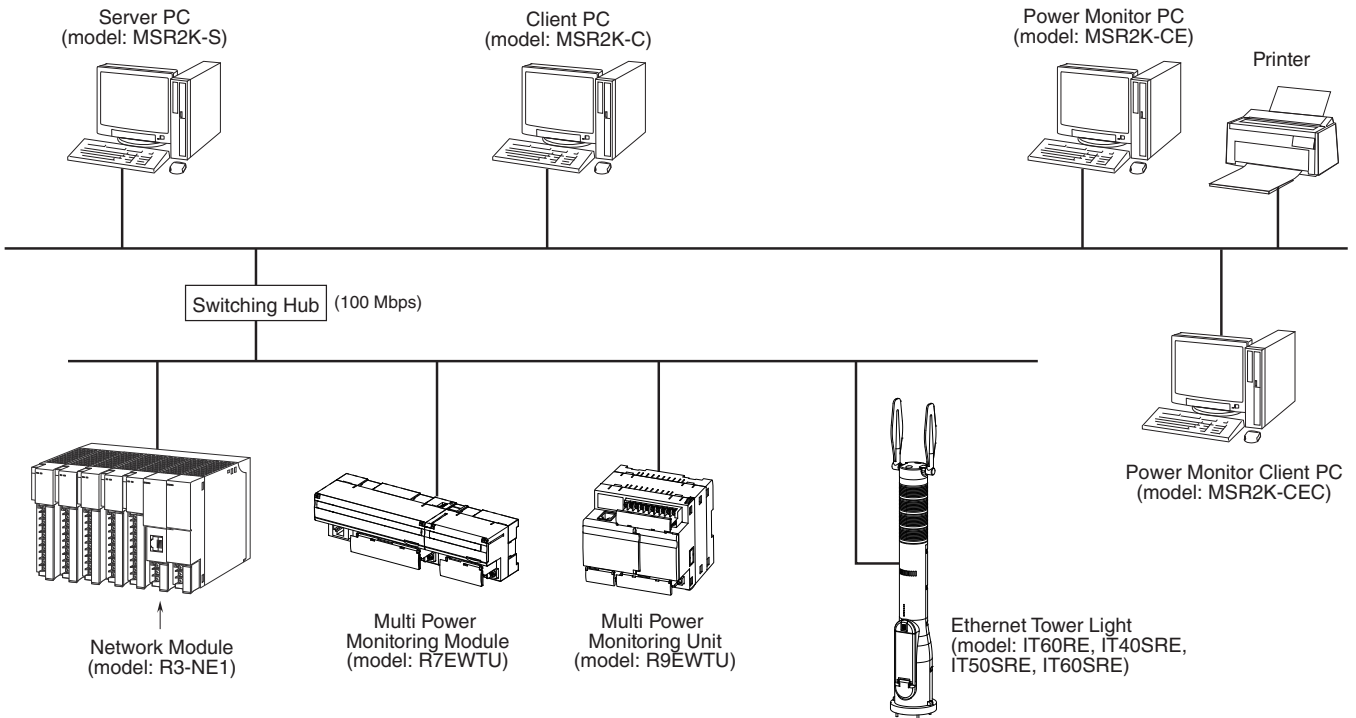


[Example 2]

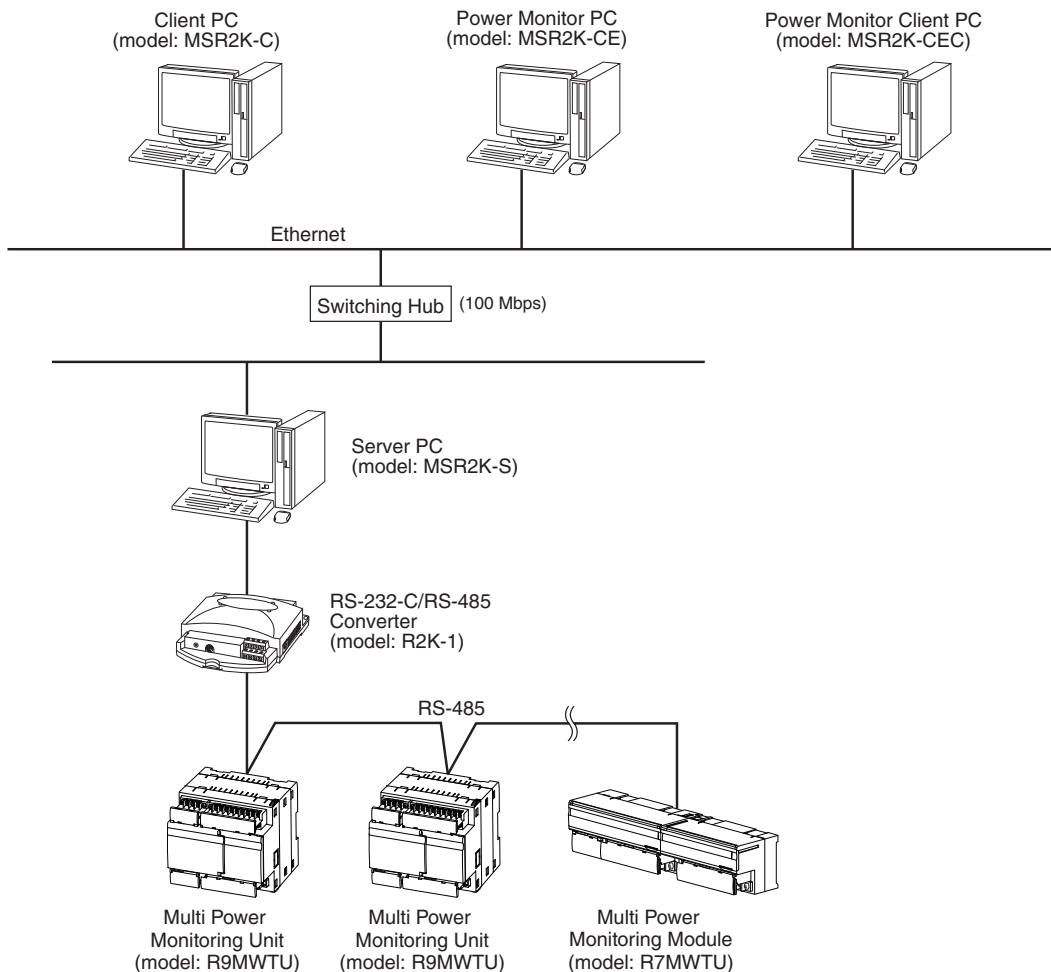


■ MSReco

[Example 1]



[Example 2]





Specifications are subject to change without notice.