HIOKI

INSTRUCTION MANUAL

2371

FA SERVER

HIOKI E. E. CORPORATION

Contents

Introduction

Thank you for purchasing the HIOKI “Model 2371 FA SERVER”. To obtain maximum performance from the instrument, please read this manual first, and keep it handy for future reference.

Inspection

When you receive the instrument, inspect it carefully to ensure that no damage occurred during shipping. In particular, check the panel switches, and connectors. If damage is evident, or if it fails to operate according to the specifications, contact your dealer or Hioki representative.

Accessories

Ferrite clamp 1
Instruction manual..... 1

Options

9762 SERVER OS 1
9763 SMART COMMUNICATOR..... 1
9418-15 AC ADAPTER
(SA130A-1225V-S, SINO-AMERICAN) 1
9642 LAN CABLE
(with the straight, cross connector, 5 m) 1
9637 RS-232C CABLE
(9pin - 9pin cross, 1.8 m) 1
9626 PC CARD 32M* 1
9627 PC CARD 64M* 1
9726 PC CARD 128M* 1
9727 PC CARD 256M* 1
9728 PC CARD 512M* 1
2351-20 AIR MODULE 1
2352-20 WIRE MODULE 1
2361-20 AC POWER MODULE 1
2362-20 DC POWER MODULE..... 1
2391-01 MODULE BASE (for 3 sets)..... 1
9767 MOUNTING FIXTURE 1
* Set of the PCMCIA Adapter and CF Card

Safety Notes

⚠DANGER This instrument is designed to comply with IEC 61010 Safety Standards, and has been thoroughly tested for safety prior to shipment. However, mishandling during use could result in injury or death, as well as damage to the instrument. Be certain that you understand the instructions and precautions in the manual before use. We disclaim any responsibility for accidents or injuries not resulting directly from instrument defects.

This manual contains information and warnings essential for safe operation of the instrument and for maintaining it in safe operating condition. Before using it, be sure to carefully read the following safety precautions.

Safety Symbols

	In the manual, the ⚠ symbol indicates particularly important information that the user should read before using the instrument.
⚠	The ⚠ symbol printed on the instrument indicates that the user should refer to a corresponding topic in the manual (marked with the ⚠ symbol) before using the relevant function.
⏚	Indicates a grounding terminal.
⎓	Indicates DC (Direct Current).

The following symbols in this manual indicate the relative importance of cautions and warnings.

⚠ DANGER	Indicates that incorrect operation presents an extreme hazard that could result in serious injury or death to the user.
⚠ WARNING	Indicates that incorrect operation presents a significant hazard that could result in serious injury or death to the user.
⚠ CAUTION	Indicates that incorrect operation presents a possibility of injury to the user or damage to the instrument.
NOTE	Indicates advisory items related to performance or correct operation of the instrument.

Other Symbols

	Indicates the prohibited action.
❖	Indicates the location of reference information.

Measurement categories (Overvoltage categories)

To ensure safe operation of measurement instruments, IEC 61010 establishes safety standards for various electrical environments, categorized as CAT I to CAT IV, and called measurement categories. These are defined as follows.

CAT I Secondary electrical circuits connected to an AC electrical outlet through a transformer or similar instrument.

CAT II Primary electrical circuits in equipment connected to an AC electrical outlet by a power cord (portable tools, household appliances, etc.)

CAT III Primary electrical circuits of heavy equipment (fixed installations) connected directly to the distribution panel, and feeders from the distribution panel to outlets.

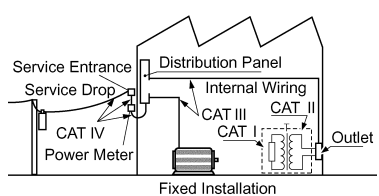
CAT IV The circuit from the service drop to the service entrance, and to the power meter and primary overcurrent protection instrument (distribution panel).

Higher-numbered categories correspond to electrical environments with greater momentary energy. So a measurement instrument designed for CAT III environments can endure greater momentary energy than a instrument designed for CAT II.

Using a measurement instrument in an environment designated with a higher-numbered category than that for which the instrument is rated could result in a severe accident, and must be carefully avoided.

Never use a CAT I measuring instrument in CAT II, III, or IV environments.

The measurement categories comply with the Overvoltage Categories of the IEC60664 Standards.



Notes on Use

Follow these precautions to ensure safe operation and to obtain the full benefits of the various functions.

⚠WARNING

Do not allow the instrument to get wet.

Corrosive or combustible gases

Do not allow the instrument to get wet, and do not take measurements with wet hands.
This may cause an electric shock.

Do not use the instrument where it may be exposed to corrosive or combustible gases.
The instrument may be damaged or cause an explosion.

Supply power to the FA server from the power supply module of the 2300 Series and the 2391-01 MODULE BASE. Note that using a supply voltage other than that specified may damage the server or result in an electrical accident.

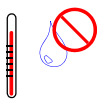
Use only the specified Model 9418-15 AC ADAPTER (SA130A-1225V-S, SINO-AMERICAN). AC adapter input voltage range is 100 to 240 VAC (with ±10% stability) at 50/60 Hz. To avoid electrical hazards and damage to the instrument, do not apply voltage outside of this range.

⚠CAUTION

Electromagnetic radiation or highly electrically charged object

Do not use the instrument near a source of strong electromagnetic radiation, or near a highly electrically charged object.
These may cause a malfunction.

Operation and Installation environment.
This instrument should be installed and operated indoors only, between 0 and 50°C (32 to 122°F) and 80% RH or less.



Temperature or humidity

Dust

Direct sunlight

This instrument is not designed to be entirely water- or dust-proof.
Do not use it in an especially dusty environment, nor where it might be splashed with liquid. This may cause damage.
When the module is used in a dusty environment, place it in a dustproof case and take measures to ensure heat dissipation.

Do not store or use the instrument where it could be exposed to direct sunlight, high temperature or humidity, or condensation.
Under such conditions, the instrument may be damaged and insulation may deteriorate so that it no longer meets specifications.

To avoid damage to the instrument, protect it from physical shock when transporting and handling.
Be especially careful to avoid physical shock from dropping.

When using the instrument in the case, drill ventilation holes.
Drill ventilation holes or install a ventilation fan to prevent heat buildup.

⚠CAUTION

Do not obstruct the ventilation holes.
Ventilation holes for heat radiation are provided on the top and bottom panels of the instrument. Leave sufficient space around the ventilation holes and install the instrument with the holes unobstructed. Installation of the instrument with the ventilation holes obstructed may cause a malfunction or fire.

To avoid damage to the instrument, be sure to remove the CF card before shipping.

Wiring

⚠WARNING

- Avoid live-line electrical work to prevent electric shock and accidents due to short-circuiting.
- When tightening the screws, confirm that all screws are securely tightened. A loose screw may result in module errors, fire, or electric shock.
- Tighten the screws within the specified torque. Excessive torque may damage the terminals. Inadequate torque may result in module errors, fire, or electric shock.
- Ensure that the power supply, input, and output are correctly wired according to the wiring diagram. This will prevent fire, malfunction, and errors.
- Do not use any available terminal for relaying or any other purpose as electric shock, errors, or malfunction may result.

⚠CAUTION

- Connect the module to a power source that matches the rating in order to prevent fire.
- Use cables of the proper sizes for the rated current. This will prevent entire system errors and fire resulting from broken wire.
- Use crimp connectors suitable for the cable sizes. This will prevent module errors and fire due to broken wires.
- If power supply noise poses a problem, use of a noise filter is recommended.
- When the power and signal lines may be subject to a lightning-induced surge, install a lightning arrester between another instrument or module connected to this module and line to protect the system.
- Avoid stepping on or pinching cables, which could damage the cable insulation.
- Keep the cables well away from heat sources, as bare conductors could be exposed if the insulation melts.

Preliminary Checks

⚠WARNING Before using the instrument, make sure that the insulation on the cables is undamaged and that no bare conductors are improperly exposed. Using the product in such conditions could cause an electric shock, so contact your dealer or Hioki representative for repair.

Before using the instrument the first time, verify that it operates normally to ensure that the no damage occurred during storage or shipping. If you find any damage, contact your dealer or Hioki representative.

Overview Chapter 1

1.1 Product Overview

By using this FA server instead of a PC, you can control Hioki's Smart Site (remote measurement system) and acquire data stably over a long period.

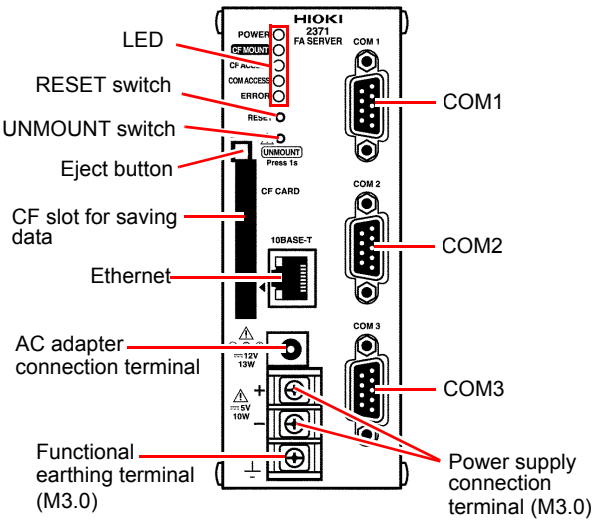
(Conceptual image)

1.2 Major Features

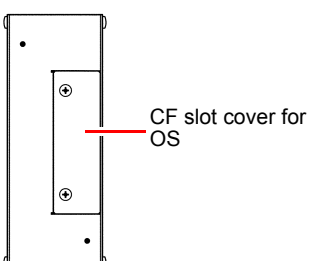
- The optional 9762 SERVER OS and the 9763 SMART COMMUNICATOR enable the following functions:
  - Control of the Smart Site and data acquisition
  - Http server function (e.g., display of daily/ monthly reports)
  - Alarm notification by email
  - Stable operation over a long period under Linux OS

1.3 Name and Function of the Parts

Front



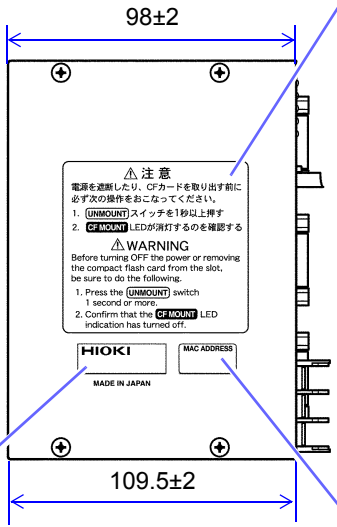
Back



LED	
POWER	Goes on when FA server power is turned ON and remains ON while the OS is running.
CF MOUNT	Indicates the state of the CF card used for saving data. On: CF card is being used. Off: CF card is not used (and may be ejected).
CF ACCESS	Remains ON while data is read from or written to the CF card.
COM ACCESS	Remains ON while the server is communicating with one of ports COM1 to COM3.
ERROR	Goes on if an error occurs.
RESET switch	Resets the hardware and returns the server to the same state held when power is turned OFF and ON again. Only use this switch in an emergency, such as when the server gets freezes.
UNMOUNT switch	Use this switch before ejecting the CF card. Hold it down for at least one second, which may eject the CF card.
Eject button	Press this button to eject the CF card.
CF slot for saving data	This slot is for the CF card used for saving data or a PC card used for communications.
COM1 to COM3	These are RS-232C communications ports. COM1: Connects a PC. COM2: Connects a modem. COM3: Connects the 2351 or 2352-20 Communications Module.
Ethernet	Connector for 10BASE-T Ethernet
AC adapter connection terminal	Connect the 9418-15 AC ADAPTER to this terminal.
Power connection terminal	Connect the power supply module of the 2300 Series to this terminal (5 VDC).
Functional earthing terminal	This is a functional earthing terminal. Be sure to ground this terminal.
CF slot cover for OS	Remove this cover to insert the CF card for OS.

Side

Label
Indicates a warning message, double insulation structure, country of manufacture, and the manufacturer.



Serial Number
Indicates the serial No. Since this label is required for network management, do not remove.

Mac Address Label
Indicates the MAC address assigned to each server when connected to LAN. Since this label is required for network management, do not remove.

(Unit: mm)

Preparations Chapter 2

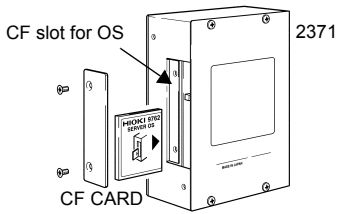
2.1 Inserting the CF Card for OS into FA Server

⚠CAUTION Ensure that the server power is OFF before inserting or removing the CF card. The CF slot for OS does not support hot swapping. Note that inserting or removing the CF card into or from the slot with power ON may damage the card or server.

To use this FA server, the optional 9762 SERVER OS is required.
Before using the server, insert the CF card into the CF slot for OS on the server at the rear. The CF card is shipped with the 9762.

Inserting the CF Card

1. Ensure that power is not supplied to the FA server.
2. Remove the two screws on the rear of the server. Remove the CF slot cover for OS.



3. Insert the CF card into the CF slot for OS in the direction shown above. Fully insert it into the slot. The slot is deep inside the server. Confirm the location of the slot before inserting the CF card.
4. Once the CF card has been inserted, the eject button next to the slot will pop out. Push the button down and turn it sideways.
5. Put the CF slot cover for OS back in place.

Removing the CF Card

1. Pop out the eject button, then press it down. The CF card will pop out a little.
2. Remove the CF card.
3. Put the CF slot cover for OS back in place and tighten the screws.

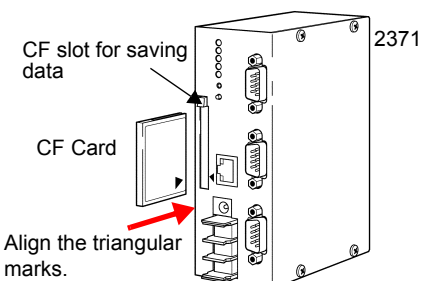
2.2 Inserting the CF Card for Saving Data

⚠CAUTION Use only PC Cards sold by Hioki.
Compatibility and performance are not guaranteed for PC cards made by other manufacturers. You may be unable to read from or save data to such cards.
Hioki options
CF cards (includes adapter)

- 9626 PC CARD 32M
- 9627 PC CARD 64M
- 9726 PC CARD 128M
- 9727 PC CARD 256M
- 9728 PC CARD 512M

Inserting the CF Card

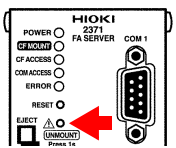
Insert the CF Card into the CF slot for saving data in the direction shown below. Fully insert it into the slot.



Removing the CF Card

⚠CAUTION Do not remove the CF card while the **CF MOUNT** LED is ON. Otherwise, data on the card may be corrupted.

1. When the **CF MOUNT** LED of the server is ON, hold down the **UNMOUNT** switch for at least one second. Ensure that the **CF MOUNT** LED goes off.



NOTE It may take one to two minutes for the **CF MOUNT** LED to go off after you press the **UNMOUNT** switch.

2. Press the eject button to partially eject the CF card.
3. Remove the CF card.

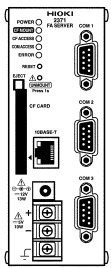
2.3 Fastening the 9767 MOUNTING FIXTURE

Use the optional 9767 MOUNTING FIXTURE to mount the server on a wall or DIN rail.

❖ Chapter 4, "Mounting the 9767 MOUNTING FIXTURE (Option)" (page 32)

2.4 Connecting the RS-232C Cable

The 2371 FA SERVER has three RS-232C communications ports (COM1 to COM3).

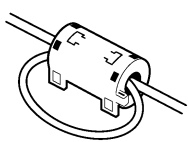


- **Connecting a PC to Make Initial Settings**
  Connect an RS-232C cross cable to **COM1** and the COM port of a PC.

- **Connecting an Analog Modem**
  Connect an RS-232C straight cable to **COM2** and an analog modem.

- **Connecting the** 2351**,** 2352-20 **Communications Module**
  Connect an RS-232C cross cable to **COM3** and the COM port of a communications module.

NOTE In case of external noise, wind the cable around the ferrite clamp supplied as an accessory as shown below.



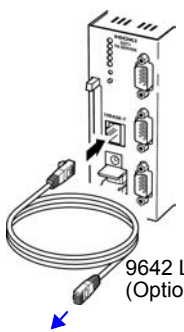
2.5 Connecting the LAN Cable

⚠CAUTION Before connecting this server to a hub or PC, make sure that said instruments are powered off to prevent internal damage.

Connecting the FA Server to a Hub

(To connect the FA server to a PC via a hub)

Use the 9642 LAN CABLE (optional) to connect the server to the hub.



9642 LAN CABLE
(Option)

Connecting to a Hub

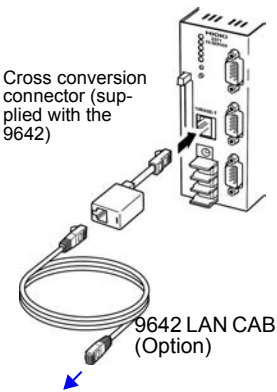
1. Turn off power of the FA server and hub.
2. Connect the 9642 LAN CABLE to 10BASE-T connectors of the server and hub.

NOTE Do not use a LAN Cable cross conversion connector to connect the server to a hub.

Connecting the FA Server to a PC

(To directly connect the FA server to a PC)

Use the 9642 LAN CABLE (optional) to connect the server to a PC.



1. Turn off power of the FA server and PC.
2. Connect the 9642 LAN CABLE to the cross conversion connector supplied.
3. Connect the cross conversion connector to the 10BASE-T connector of the server.
4. Connect the 9642 LAN CABLE to the 10BASE-T connector of the PC.

2.6 Connecting the Power

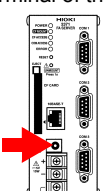
NOTE When the AC adapter connection terminal (12 VDC) and power supply connection terminal for the power supply module (5 VDC) of the 2300 Series are both connected to power sources, power is supplied from the source with higher voltage.

2.6.1 Supplying Power from AC Adapter

⚠WARNING Use only the specified Model 9418-15 AC ADAPTER (SA130A-1225V-S, SINO-AMERICAN). AC adapter input voltage range is 100 to 240 VAC (with ±10% stability) at 50/60 Hz. To avoid electrical hazards and damage to the instrument, do not apply voltage outside of this range.

NOTE Make sure the power is turned off before connecting or disconnecting the AC adapter.

1. Connect the AC adapter to the AC adapter connection terminal of the server.



2. Connect the plug of the AC adapter into an AC outlet.

2.6.2 Supplying Power from Power Supply Module (2300 Series)

⚠WARNING

- Supply power to the FA server from the power supply module of the 2300 Series and the 2391-01 MODULE BASE. Note that using a supply voltage other than that specified may damage the server or result in an electrical accident.
- Ensure that the cable is not live when connecting it. This will prevent short-circuiting.

⚠CAUTION

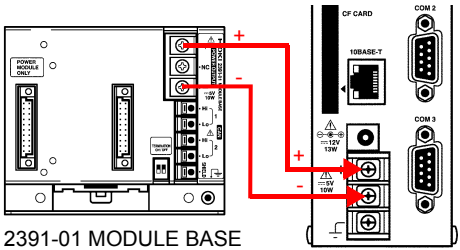
To avoid damaging other instruments, ensure that power of the power supply module is OFF when connecting the cable.

1. Choose a power cable that has sufficient current-carrying capacity, by considering the power consumption and supply voltage.

Power consumption: 10 W
Supply Voltage: 5 VDC ± 0.5 V

Example:
UL1007 AWG18/AWG16 (equivalent to 0.75 mm^2/ 1.25 mm^2) or equivalent
300V vinyl-cabtire cable
VCTF 2-core, 1.0 mm^2 or more
The cable length shall not exceed 1 meter.

2. Connect the cables (using a tightening torque of 0.5 N•m) while referring to the Name of Parts.

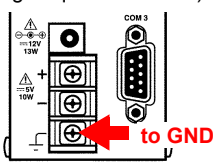


2391-01 MODULE BASE

An M3 or M3.5 crimp connector is recommended.

Example:
RAV1.25-3 or RAV1.25-3.5

3. Ground the functional earthing terminal.
(using a tightening torque of 0.5 N•m)



A cable with a conductor cross section of 0.75 mm^2 or more, and a round crimp connector is recommended.

Example:
RAV1.25-3 or RAV1.25-3.5

NOTE When connecting a instrument to this server, be sure to ground both instruments at the same place to ensure equivalent ground potential.

2.7 Turning ON Power

The FA server has no power switch. The server starts running when power is supplied to the AC adapter terminal or terminal block.
It takes about one minute for the server to become ready for operation after power is turned on and the OS starts up. LEDs on the server will indicate whether the server is ready.

State	LED display
Immediately after power is turned on.	**POWER** LED is ON.
OS is starting up.	**POWER** LED is OFF and the three LEDs below go on. • **CF MOUNT** • **CF ACCESS** • **COM ACCESS**
OS has started up.	**POWER** LED is ON. Other LEDs indicate the states of corresponding functions.

Parameter Setting and Operation

Parameters are set and this server is operated using the optional 9763 SMART COMMUNICATOR.

❖ 9763 SMART COMMUNICATOR instruction manual.

2.8 Turning OFF Power

Shut off power supply to the AC adapter terminal or terminal block.

NOTE When the **CF MOUNT** LED is ON, be sure to hold down the **UNMOUNT** switch for at least one second. Ensure that the **CF MOUNT** LED is OFF before shutting off power.

Specifications Chapter 3

3.1 Basic Specifications

CPU	SH4 (internal 192 MHz, bus 64 MHz)
Main Memory	SDRAM 32 MByte
Flash Memory	1 MByte (for BIOS)
Static Memory	256 KByte (Battery backup is available.)
Calendar/Timer	RTC (Calendars through 2099)
Display	Five LED • POWER (green) • CF MOUNT (green) • CF ACCESS (green) • COM ACCESS (green) • ERROR (red)
Switch	Two switches • RESET • UNMOUNT

3.2 External Interface Specifications

PC CARD interface (for OS)

Slot	CF Type I × 1
Available Card	Compact Flash
Storage Capacity	128 MB to 512 MB
Data Format	ext3 (File format for Linux)

PC CARD interface (for saving data)

Slot	CF Type I, II × 1
Available Card	Compact Flash
Storage Capacity	Up to 528 MB
Data Format	MS-DOS format (FAT16)

RS-232C interface

Type	RS-232C
Connector	D-sub9 pin connector × 3
Transmission Rate	1200bps, 2400bps, 4800bps, 9600bps, 19200bps, 38400bps

LAN interface

Connector	10BASE-T RJ-45 connector × 1
Method of Communication	Ethernet, TCP/IP

3.3 Software Specifications (Using the 9762 SERVER OS)

2300 Series Control	• ControlThe following controls of the 2300 Series are available: • Measurement condition setting • Start/end of measurement • Acquisition of alarm information
Totaling of Daily/ Monthly Reports	After acquiring the measurement data from the 2300 Series, saves the data on the CF card, and obtains daily and monthly totals.
Management of Alarm Log	Acquires information about alarms that occurred with the 2300 Series and creates a file of log data.
Clock Adjustment	Adjusts the clock of the 2300 Series.
Actual Time Management	Time management using PC application
Power Outage Protection	Any data not written to the CF card will be restored.
Backup	Lithium-manganese secondary battery is used. Battery life: Approx. 15 years (Reference value: Provided battery is charged for 5 days and power outage lasts no longer than 2 days)
Backup time	Approx. 10 days (Reference value)

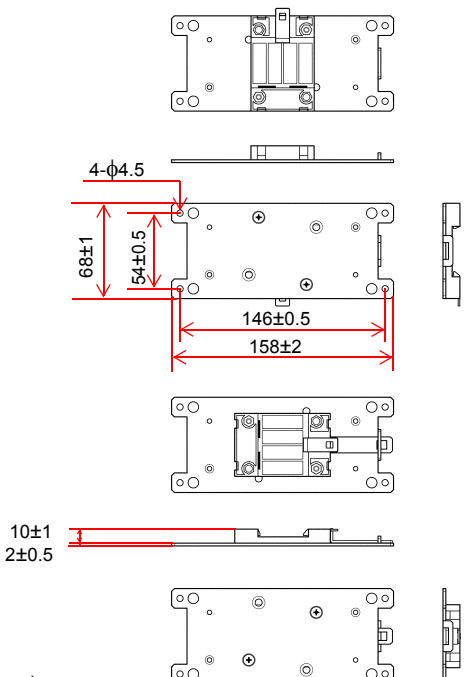
3.4 General Specifications

Clock Accuracy	±30 ppm (at 0 to 50°C) (at 32 to 122°F)
Rated Supply Voltage	5 V±0.5 VDC, 12 V±1.2 VDC
Maximum Rated Power	13 W
Dimensions	Approx. 50W ×135H ×98D mm (1.97"W ×5.31"H ×3.86"D) (excluding projections)
Mass	Approx. 540 g (19.0 oz.)
Accessories	Ferrite clamp ..... 1 Instruction manual 1
Option	9762 SERVER OS 9763 SMART COMMUNICATOR 9418-15 AC ADAPTER (SA130A-1225V-S, SINO-AMERICAN) 9642 LAN CABLE (with straight, cross connector, 5 m) 9637 RS-232C CABLE (9pin - 9pin cross, 1.8 m) 9626 PC CARD 32M* 9627 PC CARD 64M* 9726 PC CARD 128M* 9727 PC CARD 256M* 9728 PC CARD 512M* 2351-20 AIR MODULE 2352-20 WIRE MODULE 2361-20 AC POWER MODULE 2362-20 DC POWER MODULE 2391-01 MODULE BASE (for 3 sets) 9767 MOUNTING FIXTURE * Sets of PCMCIA adapter and CF CARD
Operating Temperature and Humidity	0 to 50°C (32 to 122°F), 80%RH or less (non-condensation)
Storage Temperature and Humidity	-10 to 50°C (14 to 122°F), 80%RH or less (non-condensation)

Operating Environment	Indoors, altitude up to 2000 m (6562-ft.)	
Applicable Standards	Safety	EN61010-1:2001 Pollution degree 2
	EMC	EN61326:1997+A1:1998+A2:2001 CLASS A EN61000-3-2:2000 EN61000-3-3:1995+A1:2001

Mounting the 9767 MOUNTING FIXTURE (Option) Chapter 4

This is the dedicated mounting bracket for the 2371 FA SERVER. Use this bracket to mount the 2371 on a wall or DIN rail.



(Unit: mm)

4.1 Specification of 9767 MOUNTING FIXTURE

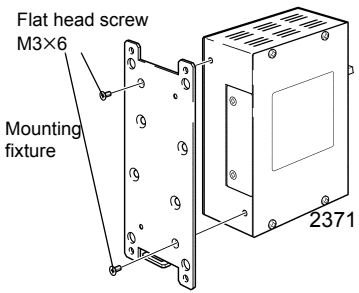
Dimensions	Approx. 68W × 158H × 2D mm (2.68"W × 6.22"H × 0.08"D) (excluding projections and Mounting connector)
Mass	Approx. 70 g (2.5 oz.)
Accessories	DIN rail mounting connector .....1 Auxiliary metal piece .....1 Screw .....4 Instruction manual 1
Applicable DIN rail	35 mm (1.38") width
Operating Temperature and Humidity	0 to 50°C (32 to 122°F), 20 to 80%RH (non-condensation)
Storage Temperature and humidity	-10 to 50°C (14 to 122°F), 80%RH or less (non-condensation)

4.2 Mounting the Mounting Fixture on a Wall

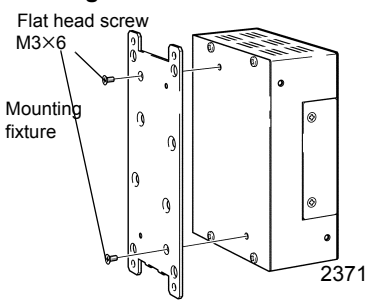
4.2.1 Attaching the fixture to the FA server

1. Attach the mounting fixture to the 2371.
Attach the fixture to the rear or side of the 2371.

Attaching to Rear



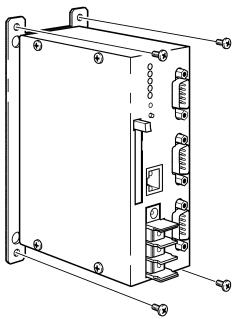
Attaching to Side



2. Mount the server on a wall by using the wall mounting holes of the fixture.

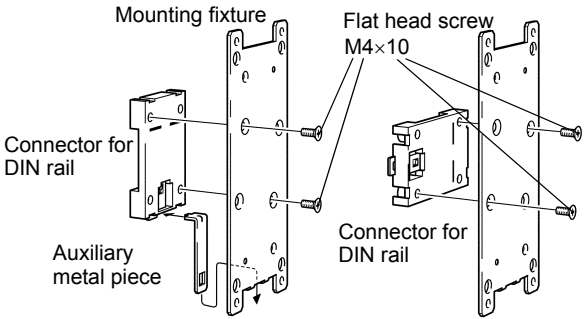
3. Ensure that the wall is sufficiently strong. Tighten the screws to fasten the fixture to the wall.
Wall mounting hole

Wall mounting holes

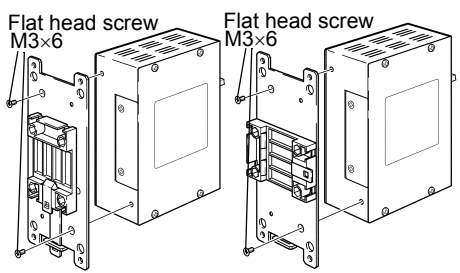


4.2.2 Mounting the mounting fixture on a DIN rail

1. Attach the DIN rail mounting connector and auxiliary metal piece to the mounting fixture.

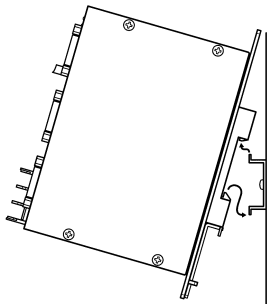


2. Attach the mounting fixture to the rear of side of the 2371.

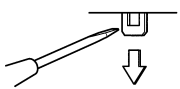


3. Mount the server on a DIN rail (35 mm wide) using the DIN rail mounting connector.

4. Hang the top hook of the DIN rail mounting connector on the DIN rail, then push down the bottom of the server.



5. To remove the server from the DIN rail, take it off while using a flat blade screwdriver to push down the auxiliary metal piece.



NOTE This mounting bracket is used for DIN rails 35 mm wide.

Maintenance and Service Chapter 5

5.1 Cleaning

To clean the instrument, wipe it gently with a soft cloth moistened with water or mild detergent. Never use solvents such as benzene, alcohol, acetone, ether, ketones, thinners or gasoline, as they can deform and discolor the case.

5.2 Servicing

⚠WARNING Never modify the instrument. Only Hioki service engineers should disassemble or repair the instrument. Failure to observe these precautions may result in fire, electric shock, or injury.

- If the instrument seems to be malfunctioning, confirm that the cables are not open circuited before contacting your dealer or Hioki representative.
- When sending the instrument for repair, pack carefully to prevent damage in transit. Include cushioning material so the instrument cannot move within the package. Be sure to include details of the problem. Hioki cannot be responsible for damage that occurs during shipment.
- When transporting the 2371 or a system containing this module, tape the front of the module or take similar measures to avoid losing internal components.
- The instrument contains a built-in backup lithium-manganese secondary battery, which offers a service life of about fifteen years. If the date and time deviate substantially when the instrument is switched on, it is the time to replace that battery. Contact your dealer or Hioki representative.

5.3 Disposal of Module

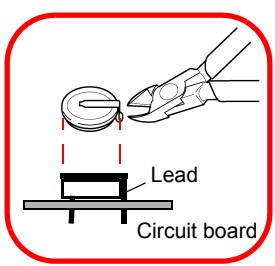
This module uses a lithium-manganese secondary battery for system backup.

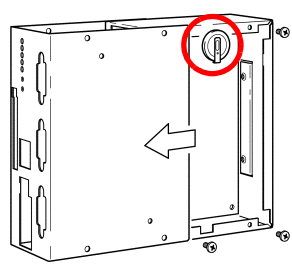
⚠WARNING

- To avoid electrocution, disconnect the power cord and RS-232C cables before removing the lithium-manganese secondary battery.
- To avoid the possibility of explosion, do not short circuit, disassemble or incinerate battery.

⚠CAUTION When disposing of this instrument, remove the lithium-manganese secondary battery and dispose of battery and instrument in accordance with local regulations.

1. Remove the 9767 MOUNTING FIXTURE when used.
2. Remove the eight screws fastening the case.
3. Use nippers to cut the two leads of the button-shaped lithium battery. The battery is located in a corner of the circuit board.





HIOKI

DECLARATION OF CONFORMITY

Manufacturer's Name: HIOKI E.E. CORPORATION

Manufacturer's Address: 81 Koizumi, Ueda, Nagano 386-1192, Japan

Product Name: FA SERVER

Model Number: 2371

Options:
9762 SERVER OS
9763 SMART COMMUNICATOR
9418-15 AC ADAPTER
9642 LAN CABLE
9637 RS-232C CABLE
9626 PC CARD 32M
9627 PC CARD 64M
9726 PC CARD 128M
9727 PC CARD 256M
9728 PC CARD 512M
9767 MOUNTING FIXTURE

The above mentioned products comform to the following product specifications:

Safety: EN61010-1:2001

EMC: EN61326:1997+A1:1998+A2:2001
Class A equipment
Equipment intended for use in industrial location

Supplementary Information:

The products herewith comply with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC.

HIOKI E.E. CORPORATION

16 July 2004

Yuji Hioki

President

2371A999-00

HIOKI 2371 FA SERVER
Instruction Manual

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