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SERVICE CHECKER TYPE 3.1 INSTRUCTION MANUAL



Issued by Maintenance Sales Dep. After Sales Service Div. DAIKIN INDUSTRIES LTD.

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Introduction

i) Thank you for purchasing our Service Checker TYPE 3.1.

This Instruction Manual explains operation methods on how to use the Service Checker TYPE 3.1 and the TYPE 3 software.

Read carefully the Manual before using correctly the Service Checker TYPE 3.1 and the TYPE 3 software to use this checker correctly.

If improper handling of the Service Checker TYPE 3.1 and the TYPE 3 software is made without observing correctly the notes specified in the Manual, it may cause accidents to human bodies or failures of air conditioning systems.

Utilize fully the Manual with keeping it carefully in a proper place adjacent to the Service Checker TYPE 3.1.

ii) Notes on safety :

Notes in the Manual of which negligence to observe may cause fatal or serious injuries to human bodies are headed "WARNING".

On the other hand, notes in the Manual of which negligence to observe may cause failures of the air-conditioning systems are headed "CAUTION".

- iii) The Service Checker TYPE 3.1 has been developed for enhancing customer-service capabilities of Daikin's air- conditioners. It is a personal computer- monitored device which is connected to an air-conditioner and reads out operation data (by temperature sensors, pressure sensors, several kinds of solenoid valves, operating modes, etc.).
- iv) The Service Checker TYPE 3.1 is possible to measure six temperature measurement points and two pressure measurement points to monitor.

v) The contents of the Manual are subject to change without notice.
 No part of this publication may be transmitted in any form without the prior permission of the publisher.

We shall not have any responsibilities and liabilities on the results arising from operating the Service Checker TYPE 3.1.

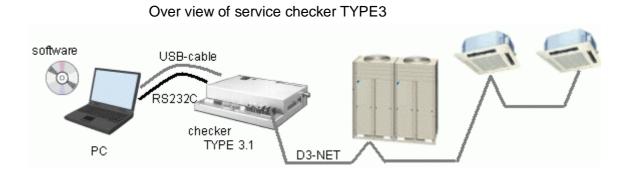
The contents of this Manual are valid as of Nov, 2012 and they may be modified for improvement without any advance notice.

vi) CE marking

This is a group 1, class B product according to EN 55011. This means that this product does not generate and/or use intentionally radio-frequency energy, in the form of electromagnetic radiation, inductive and/or capacitive coupling, for the treatment of material or inspection / analysis purpose and that it is suitable for use in domestic establishments and in establishments directly connected to a low voltage power supply network which supplies buildings used for domestic purposes.

Outline of the Manual

- 1. Firstly, read carefully the section of "Introduction". Then, confirm the contents of the packaged items by following the procedures of "Confirming of packaged items". Then, prepare for a personal computer.
- Install the checker TYPE 3 software(English) into the personal computer by following the procedures of "Chapter 1 Installing of TYPE 3 software". Perform this installing at the time of purchasing the Service Checker TYPE 3.1 and every version-up of the TYPE 3 software. Refer to the "1.2 Deleting of TYPE 3 software" when the TYPE 3 software needs to be deleted from the computer.
- 3. Refer to the "Chapter 2 Connection to air-conditioner" on the connecting between an air-conditioner and the Service Checker TYPE 3.1 and the personal computer.
- 4. Refer to the "Chapter 3 Starting- up and ending of TYPE 3 software" on the starting- up and ending of the TYPE 3 software and the setting of customer data and others.
- After connecting the Service Checker TYPE 3.1 to the air-conditioner and the personal computer, operation data and network map(linking between an indoor unit and an outdoor unit) can be displayed by following the procedures of the "Chapter 4 Recording of operation data". Also, following the procedures of the "4.2 Setting of recording", it is possible to record data after setting to record them into the hard disc of the personal computer.
- 6. When recording, operation data and network map are recorded, while in playing back, the operation data and network map are played back by following the procedures of the "5.1 Playing back of operation data" and the "5.2 Playing of network map" respectively.



Confirming of packaged items

The Service Checker TYPE III consists of five standard items packaged as follows. Check up the contents in the package.(See optional items in the "Specification" at the end of the Manual.) **1. Service Checker TYPE 3.1**

(1) Service Checker TYPE 3.1



(2) RS-232C cable

D-sub 9 pin female - D-sub 9 pin female straight (2m)



Caution

Please always use the cable (2m) originally attached to the Checker TYPE 3.1

(3) USB cable

A-B connector cable (2m) : only for power supply (DC 5V)



Caution

Please always use the cable (2m) originally attached to the Checker TYPE 3.1

2. TYPE 3 Software-2 (Parts Number : 999151T) CD-ROM : software, manual, and information



Preparation

Prepare the following

(1) Personal computer with the following specifications.

PC type :

MS Windows base PC

OS :

Windows 95/98/98SE/NT4.0/Xp/Vista/7 (32bit)

Serial Port :

RS-232C or USB-RS232C / PC card-RS232C adapter

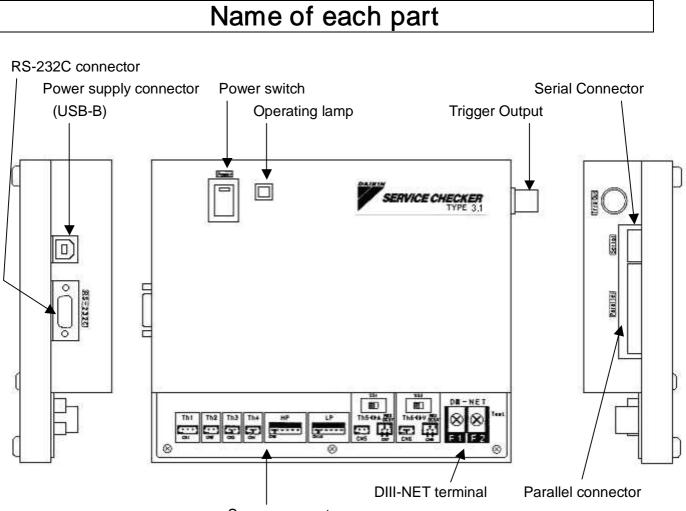
(2) If the Checker TYPE 3 is connected to DIII-NET terminal for VRV-system air conditioners for building, make up DIII-NET connecting cables as follows.

Procedures

Prepare the following signal wires. (Refer to the below notes.)

When connecting to an outdoor unit, it is appropriate for the signal wires to have 2 m in length. When connecting to an indoor unit or wiring indoor from the outdoor unit, it is possible to lengthen the signal wires within the limits of the DIII-NET length.

| | , | <u> </u> | | | | | | |
|-----------------|--|---------------|------------------|--|--|--|--|--|
| For control sig | nal wiring, use vinyl cords or cables with two-co | ore and shea | athed as follow. | | | | | |
| Vinyl cabty | Vinyl cabtyre cylindrical cord VCTF JISC3306 | | | | | | | |
| Vinyl-insula | Vinyl-insulated vinyl sheathed cable for control CVV JISC3401 | | | | | | | |
| Vinyl-insula | ted vinyl sheathed, cylindrical cable for control | CVS | JISC3401 | | | | | |
| Vinyl-insula | ted vinyl sheathed, cylindrical cable | VVR | JISC3342 | | | | | |
| 600V vinyl | cabtyre cable | VCT | JISC3312 | | | | | |
| (Note) Ple | ease do not use shielded cable. | | | | | | | |
| Cautions: | | | | | | | | |
| 1. | Do not use multiple-cored wires with 3 cores or more. | | | | | | | |
| 2. | Use wires with a cross section of 0.75mm ² -1.25mm ² . | | | | | | | |
| 3. | Do not make wires bound in control- signal wiring. Do not make | | | | | | | |
| | long-distance wiring by having signal wires bo | und packed | with tapes, | | | | | |
| | tie-laps and the like. | | | | | | | |
| 4. | Wire the signal wires away from power lines to | o prevent the | e effects of | | | | | |
| | electric noise. Since Daikin's air conditioners | s and related | products will | | | | | |
| | generate much lower electric noises, it allows | to have a dis | stance of | | | | | |
| | minimum 50mm between the power lines and | the control s | signal wires. | | | | | |



Sensor connector

| RS-232C connector | A personal computer is connected by using RS-232C cable. (Use |
|--------------------|--|
| | RS-232C cable originally attached to the Checker TYPE 3.1) |
| | USB cable connector for power connection. (DC 5V) |
| USB B-connector | (Use USB cable originally attached to the Checker TYPE 3.1) |
| Power switch | When switching on, the red lamp is lit. |
| Operating lamp | When the Checker TYPE 3 is normally operated, the green lamp is |
| Operating lamp | flashed. |
| Serial Connector | Not use |
| Parallel connector | Not use |
| Trigger Output | Not use |
| Concerencetor | This connector is used for connecting the optional sensor kit .(Parts |
| Sensor connector | Number : 999107T) |
| | This terminal is for connecting the connecting cable made based on the |
| DIII-NET terminal | DIII-NET prepared in (2), the section of the "Preparation". |

Chapter 1 Installing of TYPE 3 software

1.1 Obtaining Service Checker TYPE3 software

Obtaining Service checker TYPE3 software

- 1) CD-ROM (service parts 999151T)
- Download from Internet Web Page (Only the case of Version UP) http://airnet.jpn.org/chk/

software installer module : checker3_eng_v150.msi (V150 is version)

1.2 Installing of Checker TYPE 3 software

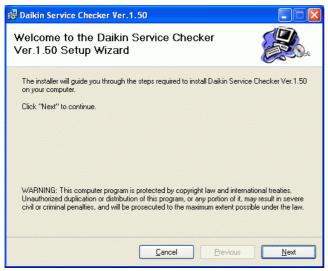
When the Service Checker TYPE 3.1 is newly purchased, or the version-up of the TYPE 3 software (English) is made , install the new version of TYPE 3 software into the personal computer.

(Note) When the version-up of the TYPE 3 software is made , be sure to delete the old version in accordance with the procedures of the "1.2 Deleting of TYPE 3 software" before installing the new version of the software.

Procedures

1) Executing installer module. (file double click.)

checker3_eng_v1xx.msi



2) Select installation folder

| Select Installatio | on Folder | |
|---------------------------------|---|----------|
| The installer will install Da | aikin Service Checker Ver.1.50 in the | |
| To install in this folder, clid | ck "Next". To install to a different ne | - |
| below or click "Browse". | | |
| Eolder: C:\Program | m Files\checker3\ | Browse |
| | | |
| You can install the softwa | are on the following dri <u>v</u> es: | Disk Siz |
| | are on the following dri <u>v</u> es: | Disk Siz |
| Volume | are on the following drives: | |
| Volume | are on the following drives: | 7169M |
| Volume C: | | 7169M |

3) Installing software

| 🙀 Daikin Service Checker Ver.1.50 | |
|---|------|
| Installing Daikin Service Checker Ver.1.50 | |
| Daikin Service Checker Ver.1.50 is being installed. | |
| Updating component registration | |
| Cancel Previous | Next |

4) Complete

| ট Daikin Service Checker Ver. 1. 50 | |
|---|------------------|
| Installation Complete | |
| Daikin Service Checker Ver.1.50 has been sucessfully installed. | |
| Click "Close" to exit. | |
| | |
| | |
| | |
| | |
| | |
| <u>C</u> ancel <u>P</u> revi | ous <u>Close</u> |

1.3 Removing Checker TYPE 3 software

When removing (uninstalling) the checker TYPE 3 software(English), follow the procedures described below.

- 1) Use Installer module.
- 2) Use Control panel of Windows

Procedures

1) Use Installer module.

Fallowing screen is displayed when the old version is already installed.

| Select whe | her you want to r | epair or remo | ove Daikin Serv | ice Checker Ver.1 | 1.50. |
|------------|--------------------|---------------|-----------------|---------------------|---|
| 0.0 | i Dallin Canina | CharlingVie | .1 50 | | |
| | air Daikin Service | | | | |
| • Hem | ove Daikin Servio | ce Uhecker V | /er.1.5U | | |
| | | | | | |
| | | | | | |
| | | | | right law and inter | |
| | | | | | may result in severe sible under the law. |

Please select "Remove Daikin Service Checker Ver.1.xx".

2) Using Control panel of Windows

| | | | | | _ | |
|-----------------|--------------------------|--------------|-----------------|-------------------------|----------------------|----------|
| ; <u>T</u> ools | <u>H</u> elp | | | | | <u> </u> |
| Search | 🏷 Folders | ⊡- × | | 1 | | |
| | | | \sim | | * | → Go |
| | Č , | Ż | (🐻) | 1 | 4 | ^ |
| w | Accessibility Options | Add Hardware | Add or Remov | Administrative Tools | Automatic Updates | = |
| ۲ | P | <u>s</u> | N | | ŝ | |
| | Date and Time | Display | Folder Options | Fonts | Game Controllers | |
| | 9 | 1 | Ċ | | | |
| | Internet Options | Keyboard | Mouse | Network Connections | Phone and Modem | * |

Click "Add or Remove Programs",

Select "checker TYPE3 software" and remove it.

Chapter 2 Connection to air-conditioner

WARNING:

- 1. When using the Service Checker TYPE 3.1 in outdoor at rainy weather, be sure to protect it from rain so that it becomes free from the danger of electric shock and fires.
- 2. When leaving the Checker for a long time as it is, take proper measures against leak current and rain water which may cause fires.

The connecting method between the Checker TYPE 3 and Daikin's air-conditioning systems consists of three : [DIII-NET connection] and [Sensor connection]. Select an appropriate one depending on their features.

2.1 DIII-NET connection

Features of DIII-NET connection

 Possible to monitor simultaneously the operation data of multiple outdoor and indoor units on the DIII-NET by connecting to VRV-system air-conditioners for building and chillers conforming to the DIII-NET in internal and external data transmission.

Units conforming to the DIII-NET are shown in the [List of applicable units] at the end of this Manual.

(Note) The range exceeding the limits of the DIII-NET expansion adapter (DTA109A1) is not possible to monitor.

 To connect to the DIII-NET terminals(F1, F2) located on the PCB of an outdoor unit or an indoor unit.

(Note) In case of an indoor unit, connect the end of the indoor unit not so as to create sub-branching.

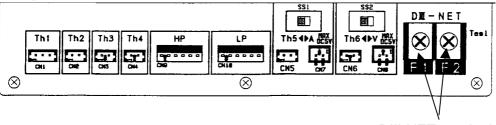
 When the Service Checker TYPE 3 is connected to the DIII-NET for the first time, be careful to note that air conditioners on the DIII-NET will be set to restart standby for several minutes.

In performing customer management, unless PCBs are replaced or the number of air conditioners has changed, the air conditioners will not be set to the standby state from the second time on by utilizing the previously recorded data of network map.

- The intervals of monitoring operation data are different depending on data items. Besides, be careful to note that the operation data of an indoor unit are monitored at intervals of several minutes.
- If the length of a connecting cable for the DIII-NET is within the limits of the DIII-NET, it is possible to lengthen the cable.
- · Not possible to use in combination with PCB connection but Sensor connection.

Procedures

 Screw tightly the clip-free end of DIII-NET connection cable made up by following the item (3) of the "Preparation" at DIII-NET terminals(F1, F2) of the Checker TYPE 3. (If an air-conditioner side is first connected and the resultant short-circuit should occur, it may cause the failures of the air-conditioner.)



DIII-NET terminals

2) Connect the clipped side of the DIII-NET connection cable to the air conditioner.

WARNING : Be sure to connect the clipped side to the transmission terminal board (F1, F2) of the air conditioner(outdoor unit or indoor unit). If wrongly connected to power terminals of centralized equipment and the like, it may cause fatal injuries by electrical shock to human bodies and failures of equipment.

CAUTIONS :

- 1. In case of connecting to an indoor unit, connect the end of the indoor unit in consideration of not creating sub-branching. If sub-branching is created, communication errors may occur.
- 2. Do not need to correspond F1, F2 of the transmission terminal board of the air conditioner to F1, F2 of the Checker TYPE 3 like F1-F1 or F2-F2 respectively.

Connect the clip-attached side of the DIII-NET connection cable to the transmission terminal board (F1, F2) of the air conditioner.

If sensor connection is needed, proceed to the section of [2.3 Sensor connection], otherwise, proceed to the section of [2.4 Switching on of the Checker TYPE 3].

2.2 Sensor connection

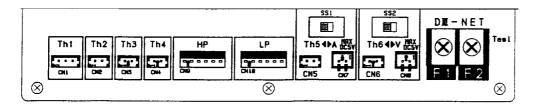
Features of sensor connection

- In case of air conditioners not conforming to the DIII-NET connection, it becomes possible to measure temperature and pressure by connecting the optional sensor kit (Parts Number: 999107T).
- •Six temperature points and two pressure points are possible to measure. Among these points, two measurement points of temperature can be monitored as a signal of DC 0-5V or DC 0-1V via measuring instrument by shifting the switch.
- · Possible to use in combination with either the DIII-NET connection.

Procedures

1) Connect the sensors of a sensor kit to the Sensor connector at the front side of the Checker TYPE 3.

WARNING : When measuring current and voltage, be sure to input a signal of 0-5VDC or 0-1VDC via measuring instrument to [A] and [V] terminals. Do not connect these terminals to directly an object to be measured current or voltage or add more than 5VDC to these terminals since fatal injury to human bodies by electric shock or fires and failures of air conditioning systems may be caused.



| Connector | Cable of sensor kit |
|-----------|---|
| Th1 | Connect air temperature thermistor (for outdoor) Th1(white). |
| Th2 | Connect pipe temperature thermistor Th2(white). |
| Th3 | Connect discharge pipe temperature thermistors Th3(red). Since the discharge pipe temperature thermistors differs from other thermistors in a converting (resistance value to temperature value) method, be sure to use the thermistor Th3. |
| Th4 | Connect pipe temperature thermistor Th4(blue). |
| HP | Connect high pressure sensor, HP(blue). Do not connect LP since HP differs from LP in a converting(resistance value to pressure value) method. |
| LP | Connect low pressure sensor, LP(red). Do not connect HP since LP differs from HP in a converting(resistance value to pressure value) method. |
| Th5 | Connect air temperature thermistor(for indoor), Th1(white). To make Th5 valid, place the upper switch in Th5 side. A and Th5 are not possible to use simultaneously. |
| A | Using optional cable A(red), connect to measuring instrument, To make A valid, place the upper switch in A side. A and Th5 are not possible to use simultaneously. The conversion of a voltage signal from measuring instrument into current is set by periodical recording in the "4.2 Setting of records" of the TYPE 3 software. |
| Th6 | Connect air temperature thermistor (for indoor), Th4(blue). To make Th6 valid, place the upper switch in Th6 side. V and Th6 are not possible to use simultaneously. |

| | Using optional cable V (blue), connect to measuring instrument. To make V valid, |
|---|--|
| | place the upper switch in V side. V and Th6 are not possible to use |
| V | simultaneously. The conversion of a voltage signal from measuring instrument into |
| | voltage value is set by periodical recording in the "4.2 Setting of records" of TYPE 3 |
| | software. |

(Note)

In case of shifting [Th5] to [A] or [Th6] to [V] by using the switch of the Checker TYPE 3, shift at a screen before the screen of [Display of network map], otherwise, operation data will not be correctly recorded.

- 2) Set the sensor part to air conditioning systems.
 - * When measuring current and voltage, be sure to input a voltage signal of 0-5VDC or 0-1VDC via the measuring instrument to the sensor connectors of the Checker TYPE 3.

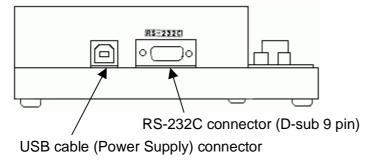
CAUTION

Please always use the sensors of Sensor Kit (Parts Number: 999107T)

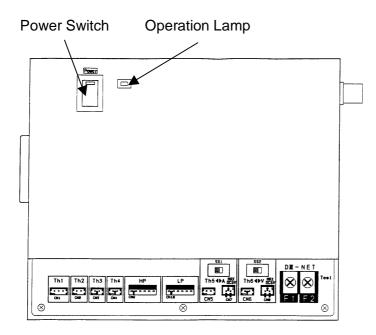
2.3 Switching on the power supply of Checker TYPE 3

Procedures

1) Connect the RS-232C cable attached to the Checker TYPE 3.1 to the RS-232C connector of the Checker TYPE 3.1 and the Serial connector of a personal computer.



- 2) Connect the Power Supply (PC, AC-adapter, battery) use USB cable, Power Supply connector of the Checker TYPE 3. [DC-5V]
- 3) Turn on the Power Switch of the Checker TYPE 3.1. The red lamp of the Power Switch lights. When the Checker TYPE 3 is normally operating, the green lamp flashes.



Chapter 3 Starting up and ending of TYPE 3 software

3.1 Starting up of TYPE 3 software

Procedures

1) Start Service Checker software by start menu.



2) After the Service Checker software is started, the following main menu is displayed.

| Checker Function (E) | | | Mindow | 0.0 | | | | _ 8 > |
|-------------------------|----------|----------|--------|----------|-------------|---------|---|-------|
| rancaon | | opion(g) | WINDOW | | | | | |
| | | 🂐 Main | Menu | į. | | | × | |
| | | | | Reco | rd (F1) | | | |
| | | | | Play | (F2) | | | |
| | | | | Data tra | nsfer (F3) | | | |
| | | | | Customer | r data (F4) | | | |
| | | | | SS da | ıta (F5) | | | |
| | | | | END | (F12) | | | |
| | | | | | | Ver1.01 | | |
| | | | | | | | | |
| Press F1 to F | 5 or F12 | Key. | | | | | | |

| [Record(F1)] | : | Press when recording.(Refer to Chapter 4 Recording of operation data) |
|---------------------|---|---|
| [Play(F2)] | : | Press when monitoring recorded operation data. |
| | | (Refer to 5.1 Play of operation data.) |
| [Data transfer(F3)] | : | Recorded operation data and customer data are transferred to a |
| | | another folder. (Refer to 5.4 Data transfer.) |
| [Customer data(F4)] | : | Customer data are input and edited (Be sure to input customer ID .) |
| | | Recorded network map data are possible to see here.(Refer to 3.2 |
| | | Setting of customer data and 5.2 Playing back of network map.) |
| [SS data(F5)] | : | SS data are normally input. (Refer to 3.3 Setting of SS data.) |
| [END(F12)] | : | The TYPE 3 software is ended. (Refer to 3.5 Ending of TYPE 3 |
| | | software.) |
| | | - 15 - Chapter 3 Starting up and ending of TYPE 3 |

software

3.2 Setting of customer data

The TYPE 3 software manages the operation data of every customer. For that reason, be sure to input customer ID at least. If the [Record only] without customer data management is used in the DIII-NET connection, since restart standby is applied every time at the side of an air conditioner, input customer data as much as possible.

(Note)

Other than input from the following step of [Customer data] menu, the input of customer data is possible by selecting the [Record(F1)] of the [Main menu].

Procedures

1) Press the [Customer data(F4)] in the [Main menu] to display the window of the [Customer selection].

| Checker Type 3 Software | Customer Selection |
|--|---|
| Function (E) Edit (E) Option (Q) Window (<u>W</u>) | 1. Customer selection Customer ID Customer name Select customer (F2) |
| Record (F1) | daikin Daikin Industries, Ltd. New customer (F3) |
| Play (F2) | Edit cust. data (F4) |
| Data transfer (F3) Customer data (F4) | Delete customer (F9) |
| SS data (F5) | Record only (F1) |
| END (F12) | (No data control) |
| Press F1 to F5 or F12 Key. | 2. SS contact selection Cancel (Esc) |

2) When customer data are newly input, press

- the [New customer(F3)] to display the window of the next [Input customer data].
- When the current customer data need to be changed, select the customer by cursor, then, press the [Edit customer data(F4)] to display the window of the next [Input customer data].
- · When customer data need to be deleted, press the [Delete customer(F9)]

| Customer Data Input | |
|---------------------|-------------------------|
| Customer ID | daikin |
| Customer name | Daikin Industries, Ltd. |
| Section | |
| Person in charge | |
| Address | |
| Telephone | |
| Fax | |
| Remarks | |
| Save (F1) | Cancel (Esc) |

- 3) Be sure to input the [Customer ID] with alphanumeric letters to identify customers.
- 4) Input the [Customer name] as much as possible to display in the windows of the [Selection of operation data] and others.
- 5) Other items are only for memos.
- 6) When ending, press the [Record(F1)] button. When returning to previous state (input waiting state) without recording, press the [Cancel(ESC)] button.

3.3 Setting of SS data

Procedures

1) Press the [SS data(F5)] in the window of the [Main menu] to display the window of the [Input SS data].

| 📦 Checker Type 3 Soft | | _ 8 × | | | |
|----------------------------|---------------------------------------|-------|--------------|-------------|--------------|
| Function (E) Edit (E) Opt | tion (D) Window (W) | S | 6 Data Input | | |
| E | i Main Menu | | SS name | | |
| | Record (F1) | | SS address | | Save (F1) |
| | Play (F2) | | SS tel. No. | | |
| | Data transfer (F3) Customer data (F4) | | SS fax No. | | Cancel (Esc) |
| | SS data (F5) | | SS contact | Add (F5) | |
| | END (F12) Verl.0 | | | Delete (F6) | |
| | Veri.u | | | | |
| | | | | | |
| Press F1 to F5 or F12 Key. | | | | | |

- 2) Input each item. Other than the item of [In charge of], use as memos.
 - Input the name of the [Person in charge of SS] before pressing the [Add(F5)] button.
 When deleting, select the name to be deleted by cursor before pressing the Delete(F6)].
 - $\cdot\,$ After completing the input, press the [Record(F1)] button.
 - · When returning without recording, press the [Cancel(ESC)].

3.4 Setting of RS-232C(COM) port

The personal computer is equipped with the setting of RS-232C ports No. (COM1 to COM8). Default setting is COM1.

Setup of PC MS-Windows setting.

If changing the ports, change by pressing the [Communication port(T)] in the menu of the [Option].

| function (F) Edit (E) | Software Option (O) Window(W) Help |)(H) | | |
|---|---|--|----------|--|
| ADP : checker ⊁ Com : COM1 A Cen.Ope. : ON Ver. : 1.50 | Centralized operation(C) Ope. data disp. setting font size sub line setting cursor setting Font color Unit of Temp.,Pres. (C/F) OS setting (O) Adapter type (A) Font setting | COM1 COM2 COM3 COM4 COM5 COM6 COM7 COM8 ransfer (F3) ransfer (F3) SS data (F5) END (F12) | | |
| | | | Ver.1.50 | |

A USB-RS232C adapter uses COM4 or

more than it in many cases.

3.5 Ending of TYPE 3 software

1) When ending the TYPE 3 software, press the [End(F12)] button in the window of the [Main menu].

| Function (E) | Edit (<u>E</u>) | Option (<u>O</u>) | Window (M | 0 | | | |
|--------------|-------------------|---------------------|-----------|--------------------|---------|---|--|
| | | | | | | | |
| | | 🂐 Main I | lenu | | | × | |
| | | | | Record (F1) | | | |
| | | | | Play (F2) | | | |
| | | | _ | Data transfer (F3) | _ | | |
| | | | | Customer data (F4) | | | |
| | | | | SS data (F5) | | | |
| | | | | END (F12) | | | |
| | | | | | Ver1.01 | | |
| | | | | | | | |

2) In case of ending the TYPE 3 software after recording and playing back, it is necessary to repeat several times pressing the [Cancel(ESC)] to return to the window of the [Main menu]. In this case, by pressing the x button in the extreme upper right of the window, the TYPE 3 software will end at onse.

| peration Data Dis | play(Daikin Industries, Ltd.,E | IIII-NET 1,DIII-NE | T,System 2,VNV-K) | |
|---------------------------------------|--------------------------------|--------------------|--------------------------------|-----------------|
| | | | Data tem 1 D-1-Ventilation | Data A |
| | | | 2 J-1 Heating | OFF |
| ~3.0m | _~~~_ | ~~ (| 3 D-1-Cooling | OFT |
| · · · · | | ~ ~ | 4 D-1-Thermostat ON | OF: |
| 10 | , <u>ה-</u> ייק | | 5 D-1-Restart sland-by | OF |
| i i i i i i i i i i i i i i i i i i i | r | | * 6 D-1-Error code | EO |
| | | | * 7 3-1 Arrbient temp. | 28.4 C |
| 3311-14-18 | | | * 8 0-1 Heat exchanger te | |
| - 10 | | 0 1 | * 9 0-1 Disch. pipe :emo.(| |
| | | -20% | * 10 0-1-Disch, gipe temp | |
| 6 19 | | | * 110-1-Suction pipe tem | |
| 20 | | | 12 O-1-Oil temp. | 45.2 C |
| 21 | | | * 13 0-1-Condensing pres. | 19.3 kgf/cm2 |
| 22 | | | * 14 0-1-Evaporating pres. | 6.5 kgi/cn2 |
| 26 43 | | | • | Þ |
| | | | On reproduce period, rod data; | 4/16/58 11:44:2 |
| 1:44:00 Graph | 11:44:30 | 11:45:00 | D-1 | Cancel (±sc) |
| Exp. (F1) Fed. (F2 |) Re.n (F3) Fowd (F4) Left | F5) R (F6) | Search (F?) | Screen pit (FS |

[Example of the display of operation data]

3) Also, by selecting the [End(X)] of the menu of [Function (F)] located in the extreme upper left of the window, the TYPE 3 software will end at once.



Chapter 4 Recording of operation data

The TYPE 3 software manages data by the hierarchy structure of [customer-network map-operation data].

| Customer | Network map | Operation data |
|------------|---------------|-------------------|
| | | System 1: Mar. 23 |
| | A building 1F | System 2: Mar. 23 |
| | | System 1: Feb. 11 |
| A customer | | : |
| | A building 2F | System 1: Apr. 2 |
| | | : |
| | : | : |
| B customer | : | : |
| : | : | : |

4.1 Displaying of operation data

4.1.1 Selecting of customer data and others

Procedures

(1) Press the [Record(F1)] in the [Main menu] to display the window of the [Customer selection].

| Function (F) | Edit (E) | Option (O) | Windov | • <u>(w/)</u> | | | |
|--------------|----------|------------|--------|--------------------|---------|---|--|
| | | | | | | | |
| | | 💦 Main | Menu | å. | | × | |
| | | | | Record (F1) | | | |
| | | | | Play (F2) | | | |
| | | | | Data transfer (F3) | | | |
| | | | | Customer data (F4) | | | |
| | | | | SS data (F5) | | | |
| | | | | END (F12) | | | |
| | | | | | Ver1.01 | | |
| | | | | | | | |

(2) In this window of the [Customer selection], input customer-related data. Recording data only without relating to customers is also possible.

| id002 EX21 | id002 EX21 Select custo New custo Edit cust. d Delete custo | Customer ID | Customer name | Record only |
|-----------------|---|-------------|---------------|----------------|
| Select c | Select custo New custo Edit cust. d Delete custo | | | (No data cor |
| New cu | New custor Edit cust. d Delete custo | id002 | EX21 | |
| | Edit cust. d | | | Select custom |
| | Edit cust. d | | | |
| | Edit cust. d | | | and the second |
| | Edit cust. d | | | |
| Edit cu | Delete custo | | | New custome |
| Edit cu | Delete custo | | | New custom |
| | Delete custo | | | New custom |
| | | | | |
| | | | | Edit cust. da |
| Delete o | | | | |
| | | | | Edit cust. da |
| | | | | |
| | | | | Edit cust. d |
| ntact selection | Cancel (| ntact sele | ction | Edit cust. da |

- In case of recording operation data after inputting customer data for a new customer, press the [New customer(F3)] and display proceeds to the [Input customer data] window. Proceed to (3).
- In case of recording operation data for a previously input customer, press the [Settlement customer(F2)] by placing the cursor in the customer name and display proceeds to the [Network map selection] window. Proceed to (4).
- In case of recording operation data for a previously input customer after changing customer data, press the [Edit customer data(F4)] by placing the cursor in the customer name and display proceeds to the [Input customer data] window. Proceed to (3).
- In case of recording only operation data without customer management, press the [Record only(F1)], and display proceeds to the [Access Method selection]. Proceed to (5).

(Notes)

- 1. In case of [Record only], be careful to note that operation data are overwritten every time.
- 2. In case of recording customer data by the [Record only] in the DIII-NET connection, input customer data as much as possible since an air conditioner will be set to restart standby every time.
- When deleting a customer data, press the [Delete customer(F9)]
- When returning to the [Main menu], press the [Cancel(ESC)].
- (3) In this window of the [Input customer data], input customer data.

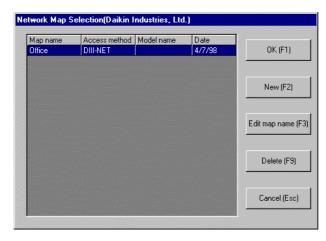
| Customer Data Input | |
|---------------------|-------------------------|
| Customer ID | daikin |
| Customer name | Daikin Industries, Ltd. |
| Section | |
| Person in charge | |
| Address | |
| Telephone | |
| Fax | |
| Remarks | |
| Save (F1) | Cancel (Esc) |

- Be sure to input the [Customer ID] with alphanumeric letters to identify customers.
- Input the [Customer name] as much as possible to display in the windows of the [Selection of operation data] and others.
- Use as memos items other than [Customer ID] and [Customer name].

When ending, press the [Record (F1)] button, and display proceeds to the [Network map selection] window. Proceed to (4).

When returning to previous state(input waiting state) without saving the data, press the [Cancel(ESC)] button.

(4) This is the window of the [Network map selection].



(Notes)

- 1. For one customer, multiple network maps can be managed.
- 2. On the unit of network map,
 - (1) In case of the DIII-NET connection, construct by every object, or even if the objects are same, construct separately each network map for both sides divided by DIII-NET expansion adapter(DTA109A1).
 - In case of being same network map for a customer with operation data recorded previously, press the [O.K.(F1)] by placing the cursor in the corresponding network map. Proceed to the window of the [Network Map Display]. (Refer to "4.1.2 Network Map Display".)
 - In case of being different network maps (for DIII-NET connected objects, different DIII-NET expansion adapter, different PCB connected outdoor units) for a customer with operation data recorded previously, press the [New(F2)], and proceed to the [Access Method Selection] window. Proceed to (5).
 - In case of changing the name of network map, press the [Edit map name (F3)], and proceed to the [Access Method Selection] window. Proceed to (5).
 - When deleting a network map, press the [Delete customer(F9)]
 - · When returning to the previous stage, press the [Cancel(ESC)] button

(5) This is the window of the [Access Method Selection].

| Access Method Selection(Daikin Industries, Ltd.) | |
|--|--------------|
| 1. Network map name | |
| DIII-NET | |
| 2. Access method | OK (F1) |
| DIII-NET | |
| C PCB connection | |
| Typical model selection | Cancel (Esc) |
| Y | |
| C Sensor input only | |
| | |

(a) Be sure to input the [1. Network map name].

- (b) Select the [2. Access method].
 - [DIII-NET] : Possible to use only DIII-NET connection or in combination with Sensor input. Possible to use air conditioners conforming to the DIII-NET in internal and external transmission method. Possible to identify and select automatically the type of an air conditioner, so, selection is not necessary.
 - [PCB connection] : do not use.

- 22 -

- [Sensor input only]: Select this when monitoring the temperature and pressure of an air conditioner in not conformity with DIII-NET connection by an optional sensor kit.
- (c) If the selection is OK, press the [O.K.(F1)]. Proceed to the window of the [Network Map Display]. (Refer to "4.1.2 Network map display.") When returning to the previous stage, press the [Cancel(ESC)].

4.1.2 Displaying of network map

(Notes)

If time setting of the personal computer is made after the window of the [Network Map Display], the order of data to be recorded is changed, resulting in not recording data correctly. Do not make time setting of the personal computer after the window of the [Network Map Display].

* When the Checker TYPE 3 is connected to the DIII-NET for the first time, air conditioners on the DIII-NET will be set to restart standby for several minutes, displaying the following message.

| Checker Type 3 Softwa | re |
|----------------------------|---------------------------------|
| Network map data will b | e collected. |
| System will be on standb | by for restarting and aircondi- |
| tioners on DIII-NET will s | stop for several minutes. OK? |
| | |
| Yes (F1) | No (Esc) |
| | |
| | |

* If the restart-standby is allowed, press the [Yes(F1)].

(Notes)

- 1. When pressing the [Yes(F1)], air conditioners on the DIII-NET are set to restart standby, making the thermostat switched off for several minutes.
- 2. If using the previous network data by customer management, no such message in the window will be displayed again from the second time.

Then, air conditioners on the DIII-NET are automatically searched for several minutes.

| Network Ma | ap Display(Daikin Indust | ries, Ltd.,DIII-NET 1,DIII-N | ET) | |
|------------|--------------------------|------------------------------|-------------------|-----------------|
| | | | | |
| Up (F1) | Map mode (F3) | Display mode (F4) | Record. mode (F5) | Cancel (Esc) |
| Down (F2) | Detail data input (F6) | Central operation (F7) | Update map (F8) | Screen prt (F9) |

(Note)

When the wiring-change button on the PCB is not pressed after adding or removing an outdoor unit, an indoor unit, and BS unit and changing PCB, the network map may not be displayed. In such a case, press the wiring-change button.

* If the restart-standby is not allowed, press the [No(ESC)] to return to the previous stage and monitor every outdoor unit by PCB connection.

This is the window of the [Network Map Display].

| Network Map Display(| Daikin Industrie | s, Ltd.,DIII-NET 1,DIII-N | ET) | |
|----------------------|------------------|---------------------------|-------------------|-----------------|
| System 2 | | | | |
| Up (F1) | node (F3) | Display mode (F4) | Record. mode (F5) | Cancel (Esc) |
| | node (F3) | Display mode (F4) | Hecora, mode (FS) | Lancel (Esc) |
| Down (F2) Detail da | ita input (F6) | Central operation (F7) | Update map (F8) | Screen prt (F9) |

- (1) Reading of window.
 - * The window displays outdoor units and indoor units in order of each auto-address by using icons.
 - * The colors of the icons are changed depending on the state of an air conditioner.

| Color | Description |
|--------|--|
| Red | Error state * In case of VRV PLUS series, if any of outdoor units are not normal, all of outdoor units and function units are displayed "Red". |
| Purple | Transmission error. * Chillers exceeding the range of the DIII-NET expansion adapter are displayed "Purple" even if they are normally operating. |
| Green | Indoor unit : operating state Outdoor unit : thermostat-ON state |
| Gray | Indoor unit : not operating state Outdoor unit : thermostat-OFF state |
| White | When air conditioners connected to the DIII-NET exist, but their types have not been identified automatically, this color icon is displayed while identifying the types automatically for a few minutes. |

(Notes)

- Be careful to note that Super Multi and room air conditioners connected to the PCB cannot be correctly displayed in distinguishing between an indoor unit and an outdoor unit.
- If nine or more indoor units are connected by using an expanding adapter for indoor units, be careful to note that the display of operation data on the units is limited to on one indoor unit with average data.
- 3. The [system] displayed at the upper left in the window denotes a unit of an outdoor unit In the VRV-PLUS, one system is constructed by the overall system including the function units. The DIII-NET connection can take in the data of multiple systems at the same time.
- The [Central] column in the window indicates "Centralized address" input by the [Detail data input], while the [Installation site] column indicates "Installation site" input by the [Detail data input].
- In the DIII-NET connection, the "AIRNET address" automatically taken in by the TYPE 3 software is displayed in the [AIRNET] column in the window.
 - (2) When the number of systems or air conditioners is too much to display in one window, press the [Up(F1)] or the [Down(F2)] at the left below side of the window to scroll the window.

(3) In the group of buttons displayed at the bottom of the window, by shifting a mode with the upper 3 buttons, the bottom 4 buttons can execute each function.

| A. Map mode(F3) | | | | |
|--|---------------|---------------------|---|----------------------------|
| Map mode(F3) | | | | |
| Detail data input(F6) | Centralized c | ontrol(F7) | Update map(F8) | Print screen (F9) |
| [Detail data inp | ut(F6)]: | types, ins | f inputting detailed c tallation sites, press to the "4. 1. 3 Inpu | this button. |
| [Centralized co | ntrol(F7)] : | centralize | f DIII-NET connection d control of indoor to the "4. 3 Centraliz | units is possible. |
| [Update map(F8)] : | | changed DIII-NET | nber of air conditione or PCBs are replace connection, press the data of network m | ed in the his button to |
| (Notes) When pressing the [Yes(F1)], air conditioners on the DIII-NET are set to standby for restart, making the thermostat switched off for several minutes. | | | | |
| [Print screen (F | -9)] : | Press this map. | s button to print the | screen of network |

A. Map mode(F3)

B. Display mode(F4)

| | Display mode(F4) | | | | |
|--|--|--|--|--|--|
| Display operation data(F6) | Start DIIIdata recording(F | 7) Display number of units(F8) | | | |
| [Display operation data | operation data], displayed. | o the window of [Display system operation data are 4.1.4 Displaying of operation | | | |
| | (Note) In case of the DIII-NET connection, after all icons of the system to be seen have become colors other than white, display the operation data. | | | | |
| | g(F7)] : Do not press the is not used. | | | | |
| (Note) If pressing this button, the indication is changed to [End DIIIdata recording(F7)]. If so, press again to return to [Start DIIIdata recording(F7)]. | | | | | |
| [Display number of uni | [Display number of units(F8)]: The number of connected outdoor units and indoor units is displayed. | | | | |
| (Note) In the PCB connection, the number of units of Super Multi and room air | | | | | |

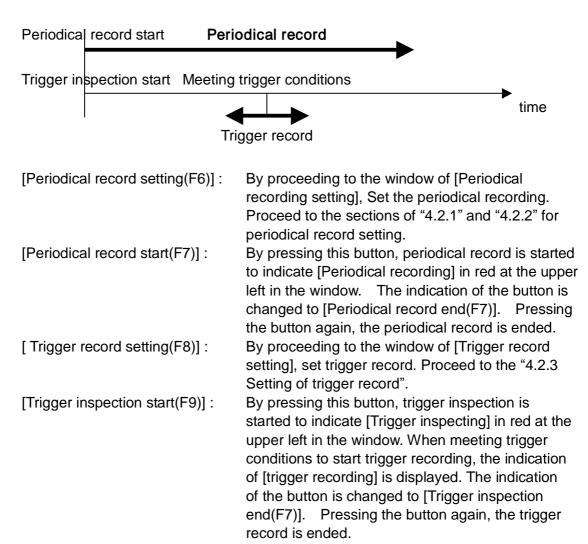
| | Outdoor ι | Indoor ur | Central device | T |
|-----------|-----------|-----------|----------------|---------------------------------------|
| System 1 | 4 | 24 | | |
| System 2 | 1 | 8 | | |
| Sub total | 5 | 32 | 0 | |
| Total | 37 | | | |
| | | | | |
| | | | | · · · · · · · · · · · · · · · · · · · |
| | | | | Close (Esc) |
| | | | | <u>i</u> |
| | | | | |
| | | | | |
| | | | | |
| | | | | 1 |
| | | | | |
| | | | | |
| | | | | |

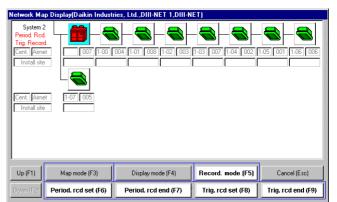
conditioners is not displayed correctly.

C. Recording mode(F5)

| | | Recording mode(F5) | |
|-------------------|-------------------|--------------------|--------------------|
| Periodical record | Periodical record | Trigger record | Trigger inspection |
| setting(F6) | start(F7) | setting(F8) | start(F9) |

The method of recording operation data consists of two: one is the [Periodical recording] which records successively for a constant time, and another is the [Trigger recording] which records before and after meeting trigger conditions (conditions of digital data ON/OFF). The TYPE 3 software can set the method separately.





4.1.3 Inputting of detailed data

| The window of the [Detail data input] is displayed below. | | | | |
|---|-----------------------------|-------------------|--|--|
| Detail Data Input(Daiki | n Industries, Ltd.,DIII-NET | 1,DIII-NET,Syst | | |
| 1. Airconditioner selection | 0-1 | | | |
| 2. Detail data input | | Save (F1) | | |
| Install site (name) | Office | | | |
| Model No. | EB9451 | | | |
| Model name | RXY10K | List display (F2) | | |
| Centralized address | | | | |
| Auto address | 000 | Cancel (Esc) | | |
| Aimet address | 000 | | | |
| | | | | |

When pressing the button of the [Detail data input(F6)] after selecting the [Map mode(F3)] in the window of the [Network Map Display], the window of the [Detail data input] is displayed to enable to input the detail data of a system pointed with cursor (every outdoor unit).

(Note)

Use detail data as memos. In case of recording only operation data, the detail data input is unnecessary.

Procedures

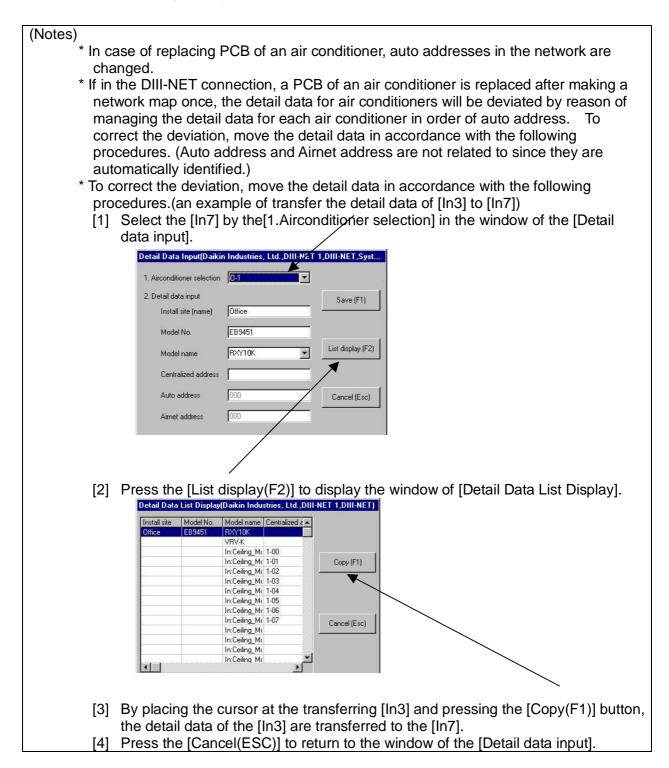
(1) In the [1.Airconditioner selection], select an air conditioner for inputting detail data. The order of the [in1, in2,---] is for the order of auto address.

(2) Input each item of the [2.Detail data input]. The items are as follows.

| ltem | Description |
|-------------------------|---|
| Installation site(name) | Input for a memo. |
| Model No. | Input for a memo. |
| Model name | Since the automatic type identification in the DIII-NET connection and the model name of the PCB connection input by following the window of the [(5)Access Method Selection] in the [4.1.1 Selecting of customer data and others] are roughly designated model name, select here the model name in detail. After selected, model name can be edited. In case of an indoor unit, input model name since there are no selection items. |
| Centralized address | Input for a memo. |
| Auto address | In case of the DIII-NET connection, address is automatically taken in. In the window of the [Network Map Display], the icons are displayed in order of auto addresses. * Not to possible to change. |
| AIRNET address | In case of the DIII-NET connection, AIRNET address is automatically taken in. This address is set to an indoor unit by remote controller. * Not possible to change. |

(3) After one set of data for an air conditioner are completed to input, press the [Save(F1)].

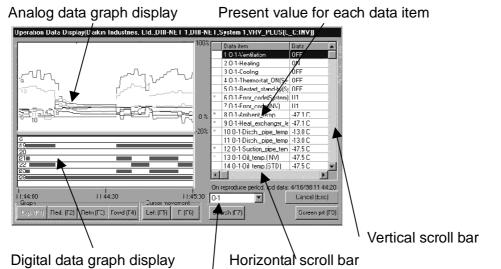
(4) By selecting another air conditioner with the [1.Airconditioner selection] to input necessary data, press the [Save(F1)].



(5) After completing to input, press the [Cancel(ESC)] to return to the window of the [Network map display].

4.1.4 Displaying of operation data

The window of the [Operation Data Display] is displayed below. The operation data for a system are displayed by pressing the button of the [Operation Data Display(F6)] after selecting the [Display mode(F4)] in the window of the [Network Map Display]. One window is displayed per one system.



Possible to jump to another air conditioner in the same system.

- (1) Analog data graph display(upper left in the window)
 - * Time and percentage ratio(-20% to +100%) to full-scale are indicated in the horizontal axis and in the vertical axis respectively. Since full-scale is located at the end of the right side of data- item list in the window, see by moving the horizontal scroll bar to the right. When at 100%, full scale value is indicated.
 - * The number and color of a graph coincide with those of * at the left end in the data item in the window.
 - * Eight items per an air conditioner can be displayed.
- (2) Digital data(ON/OFF) graph display(left bottom in the window)
 - * In case of ON, blue bar is displayed.
 - * The number of a graph coincides with that of the left end in the data item in the window.
 - * Eight items per an air conditioner can be displayed.

| Item of list | Description |
|--------------|--|
| (left end) | Data in a graph corresponds to colored *. |
| Data item | From left, [Successive number], [Distinction and number of indoor and outdoor unit], and [item name] are displayed. |
| Data | Operation data are displayed. In case of DIII-NET connection, updating of operation data of an indoor unit is at intervals of several minutes. |
| Update time | The time of data updated is displayed. In case of DIII-NET connection, there are items updating at intervals of several minutes. |
| Full-scale | When graphing analog data, full-scale corresponds to a 100% value. |

(3) Present value display of each item (list at the right side in the window).

- * Eight items per an air conditioner for analog data and digital data are displayed respectively. By placing the cursor in a data item to be displayed and pressing the [F12] key, the data item is marked at the left end by * and its graph is displayed in the left side of the window at the same time.
- * In case of ending a graph displayed by a data item, place the cursor in the data item on the list at the right in the window and press the [F12] key.

(Notes)

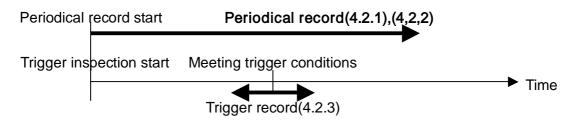
- 1. In the PCB connection, the data item with [***Retry] does not show [Retrying], but shows to have retried before.
- 2. On the data item of an indoor unit connected to the PCB, [Internal and external transmission error] shows the state that due to an indoor unit's error, signal transmission between an indoor unit and an outdoor unit cannot be performed. [Indoor unit error] shows the error state that it is impossible for an indoor unit to switch thermostat ON. [System error] shows that the overall system between an indoor unit and an outdoor unit is error. [Error between remote controllers] shows the error state between an indoor unit and a remote controller.
 - 3. Because of not covering all of model classification in the TYPE 3 software, small horse-power models may display the items of not existing sensors and actuators.

Neglect this and refer to the Service Manual in detail.

(4) Press the [Cancel(ESC)] to return to the window of the [Network Map Display].

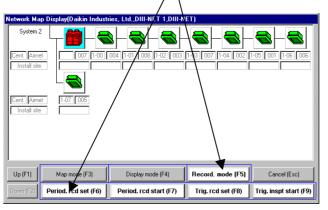
4.2 Setting of recording

The method of recording operation data consists of two: one is the [Periodical recording] which records successively for a constant time, and another is the [Trigger recording] which records before and after meeting trigger conditions(conditions of digital data ON/OFF). The TYPE 3 software can set the method separately. Sensor input can be set only in the periodical recording.



4.2.1 Setting of periodical recording (in case of DIII-NET connection)

The window of the [Periodical record setting] is displayed by pressing the button of the [Periodical record setting(F6)] after selecting the [Recording mode(F5)] in the the window of the [Network Map Display].



| Periodic Recording Setting(Daikin Industries, Ltd.,t,PCB connecti | on) | | | |
|---|---------------------|--|--|--|
| 1. Rcd interval 20 sec. 2. Rcd stop method Annual C Auto (record time | 30 minutes) | | | |
| 3. Record, system select, (possible to select more than one) | | | | |
| System No Expected record file size | | | | |
| * System 1 7KB/hour(s) | | | | |
| | | | | |
| | Set. completed (F1) | | | |
| Total of expected record file size 7 KB/hour(s) | | | | |
| Free disk area 3,338.1 MB (1MB = 1024KB) | | | | |
| (If the free disk area is more than 2 GB, values may not be correct.) | | | | |
| 4. Sensor input setting Cancel (Esc) | | | | |
| No recording Recording (system selection System 1) | | | | |
| Sensor input setting (F2) | | | | |

The window of [Periodical record setting]

Procedures

1) Set the [1.Recording interval], the [2. Recording end method], and the [3. Recording system selection].

| Setting item | Description | | |
|-------------------------------------|---|--|--|
| 1. Recording interval | Select the time intervals recording in the hard disk of the personal computer.(5, 10, 20, 30, 60, 120, 180, 300, 600 seconds) Since less time intervals need more recording data area for the hard disk, the initially set value of 20 seconds is recommended. When recording for a long time (more than 2-3 days), it is recommended that the recording interval should be 120 to 300 seconds. * The recording interval is an interval recorded in the hard disk of the personal computer. The operation data taken in from each air conditioner may be recorded at intervals of several minutes in case of indoor units. | | |
| 2. Recording end method | Set a recording stop method as follows. Manual : In the window of the [Network Map Display], continue to record until pressing the [Periodical record stop(F7)] button. Automatic : Recording of operation data ends automatically after arriving at a pre-set recording time. Input a recording time with a minute unit. | | |
| 3. Recording system selection | In the DIII-NET connection, it is possible to set [Recording] or[No recording] for every system(each outdoor unit). Multiple selection is possible. By placing the cursor in the [System No.] to press the [F12] key, [Recording] or [No recording] is shifted. The left side of system recording is marked O. | | |

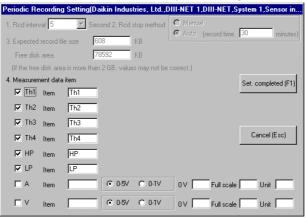
(Notes)

Since the [Total of expected record file size(KB/hour(s))] and the [Free hard disk area (MB)] are displayed, confirm if the free area is enough in recording the data. Be careful to note that if the free hard disk area of the personal computer is more than 2 GB, values may not be displayed correctly.

2) Set the [4. Setting of sensor input].

Select the [Recording] or [No recording], and also the [System] when recording.

When recording, further press the [Sensor input setting(F2)]. Set the [Measurement data item] by following the window below.



(Note)

In case of shifting [Th5] to [A] or [Th6] to [V] by using the switch of the Checker TYPE 3, shift at a window before the window of [Display of network map], otherwise, operation data will not be recorded correctly.

Set the following items.

| Item | Description for setting | | | | |
|--|--|--|--|--|--|
| Th1 | | | | | |
| Th2 | | | | | |
| Th3 | (1) Click with the mouse the [Check box]at the left of sensor connectors to be | | | | |
| Th4 | used. | | | | |
| HP | (2) Input the [Item name] for recording data. | | | | |
| LP | | | | | |
| Th5 | (1) Click with the mouse the [Check box]at the left of sensor connectors to be used. (2) Input the [Item name] for recording data. (3) If the switch of the Checker TYPE 3 is positioned at [A] or [V], set further the items located at the right side in the window. a. Select the range of voltage signals with 0-5VDC or 0-1VDC. b. Input a value at 0 V in the item of [0 V]. c. Input a value at full-scale (5V or 1V) in the item of [Full-scale]. d. Input unit in the item of [Unit]. | | | | |
| | Unit A Example of [0-5V] | | | | |
| Th6 | Value at [Full-scale] Value at [0V] 0V 5V Voltage signal(V) | | | | |
| | (Horizontal axis : voltage signals from measuring instrument, vertical axis : recording values corresponding to voltage signals) | | | | |
| When completing to set the above, press the [Setting complete(F1)] to return | | | | | |

When completing to set the above, press the [Setting complete(F1)] to return to the window of the [Periodical record setting].

- 3)Press the [Setting complete(F1)] in the window of the [Periodical recording Setting] to return to the [Network Map Display].
- 4) When starting the [Periodical record], press the [Periodical record start(F7)] in the window of the [Network Map Display] to display the [Periodical recording] in red at the upper left in the window. Also the indication of the button is changed to the [Periodical record end(F7)]

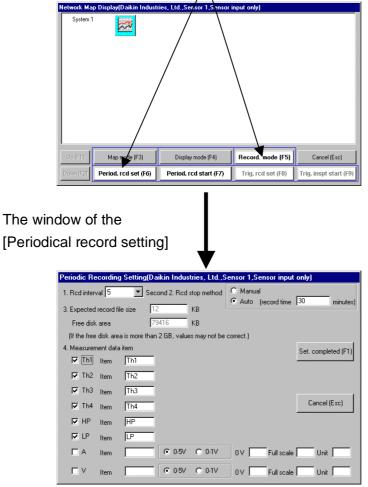
| Network Map Display(Daikin Industries, Ltd.,DIII-NET 1,DIII-NET) | | | | | | |
|--|----------------------|-----------------------|--------------------|------------------------|--|--|
| System 2 Period. Rcd | | ▋─❸─❸ | - 8 - 8 - | | | |
| Cent. Aime Install site | | 004 1-01 008 1-02 003 | 1-03 007 1-04 002 | | | |
| Cent. Aime | | | | | | |
| Up (F1) | Map mode (F3) | Display mode (F4) | Record. mode (F5) | Cancel (Esc) | | |
| Down (F2) | Period. rcd set (F6) | Period. rcd end (F7) | Trig. rcd set (F8) | Trig. inspt start (F9) | | |

- 34 -

5)When ending the [Periodical record] manually, press the [Periodical record end(F7)]. If in the [Recording end method] of , the [Automatic] is set, recording data is automatically ended after pre-set [recording time].

4.2.2 Setting of periodical recording (in case of sensor input only)

The window of the [Periodical record setting] is displayed by pressing the button of the [Periodical record setting(F6)] after selecting the [Recording mode(F5)] in the window of the [Network Map Display].



Procedures

- Set the [1. Recording interval] and the [2. Recording end method]. Refer to (1) of the "4.2.1 Setting of periodical recording(in case of DIII-NET connection and PCB connection). (There is no setting of the [3. Recording system selection]
- (2) Set the [4. Setting of sensor input]
 Refer to (2) of the "4.2.1 Setting of periodical recording (in case of DIII-NET connection and PCB connection).
- (3) When completing to set the above, press the [Setting complete(F1)] to return to the window of the [Network Map Display].
- (4) When starting the periodical recording, press the [Periodical record start(F7)] in the window of the [Network Map Display] to display the [Periodical recording] in red at the upper left in the window. Also the indication of the button is changed to the [Periodical record end(F7)].

| Network Ma | p Display(Daikin Indust | ries, Ltd.,Sensor 1,Sensor i | nput only) | |
|-------------------------|---------------------------------------|------------------------------|--------------------|------------------------|
| System 1 Period, Rod | | | | |
| 1 0.000.000 | · · · · · · · · · · · · · · · · · · · | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Up (F1) | Map mode (F3) | Display mode (F4) | Record. mode (F5) | Cancel (Esc) |
| | | | | |
| Down (F2) | Period. rcd set (F6) | Period. rcd end (F7) | Trig. rcd set (F8) | Trig. inspt start (F9) |

(5) When ending the periodical recording manually, press the [Periodical record end(F7)]

If in the [Recording end method] of (1), the [Automatic] is set, recording data is ended automatically after pre-set [recording time].

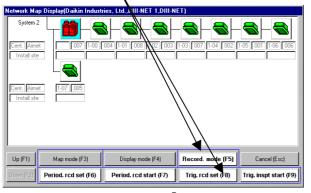
4.2.3 Setting of trigger recording

- * System 1 only is possible to set trigger recording in the TYPE 3 software.
- * The [Trigger recording] is a method which records before and after meeting trigger conditions (a combination of digital values (ON/OFF) of operation data).

(Notes)

- 1. Since air conditioners conforming to the DIII-NET in the internal and external transmission method will take maximum several minutes for data-transfer intervals, triggering may be delayed several minutes even if actual changes are taken place in an air conditioner.
- 2. Depending on a combination of trigger conditions, triggering may not occur because of time deviation between the changes of an air conditioner and its data transfer.

The window of the [Trigger record setting] is displayed by pressing the button of the [Trigger record setting(F8)] after selecting the [Recording mode(F5)] in the window of the [Network Map Display].



The window of [Trigger record setting]

| Trigger Record Setting(Daikir | Industries, | Ltd.,DIII-NE | T 1,DIII-NET) | | | |
|-----------------------------------|---|----------------|---------------|---|--|--|
| 1. Rod time bef./aft. trig. 30 | 1. Rod time bef./aft. trig. 30 minutes (If set to a value higher than 60 minutes, the record tim before triager setting will be set to 60 minutes.) | | | | | |
| 2. Trigger setting | | | | | | |
| 2.1 Trigger record system select | tion (1 system (| only) | | | | |
| System No. Expec | ted record file : | size | | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | | |
| System 1 | | | | 1965 | | |
| * System 2 210KB | | | | Set. completed (F1) | | |
| | | | | Sec completed (i i i) | | |
| | | | WEDGOOD | 1 | | |
| Free disk area | 76400 | ĸ | B | | | |
| (If the free disk area is more th | han 2 GB, valu | ies may not be | correct.) | , pin | | |
| 2.2 Trigger conditions setting | | | | | | |
| Data item | Trig. cond. 1 | Trig. cond. 2 | | | | |
| 1 0-1-Ventilation | ON | IGNORED | | | | |
| 2 0-1-Heating | IGNORED | IGNORED | | Cancel (Esc) | | |
| 3 0-1-Cooling | IGNORED | IGNORED | | | | |
| 4 0-1-Thermostat_ON | IGNORED | IGNORED | | | | |
| 5 0-1-Restart_stand-by | IGNORED | IGNORED | | | | |
| 6 0-1-Error_code | IGNORED | IGNORED | | | | |
| 7 0-1-Compressor_2(STD) | IGNORED | IGNORED | | | | |
| 80.1.Fan 1H | LIGNOBED | IGNORED | | | | |
| | | | | | | |

Procedures

(1) Set the [1. Record time before and after trigger] and the [2. Trigger setting].

| Setting item | Description |
|---|---|
| 1. Record time before and after trigger | When the trigger conditions are met in the window of the [2.2 Trigger conditions setting], set a time by minute unit to determine the recording time before and after trigger. If setting [30 minutes] for the record time, the operation data for 30 minutes before and after trigger are recorded. If set to a value higher than 60 minutes, the record time before trigger setting will be set to 60 minutes and that after trigger will be set to the value. The interval of recording to the hard disk of the personal computer is fixed 10 seconds. |
| 2.1 Trigger | System 1 only is possible to set trigger recording in the TYPE 3 software. |
| record | Select a System(each outdoor unit) recording trigger. |

| system selection | By placing the cursor in the [System No.] to press the [F12] key, [Recording] or [No recording] is shifted. The left side of system recording trigger is marked *. |
|--------------------------------------|--|
| 2.2 Trigger conditions setting | The [Trigger conditions] can set two groups: the [Trigger condition 1] and the[Trigger condition 2]. If either group is met to trigger conditions, trigger will start recording. Within a group, when all the conditions are met to trigger conditions, trigger will start recording. In the window example of the previous page , by the [Trigger conditions 1], the [Thermo ON] is ON and trigger is started, if [Error code] shows error state, but no other items are related to. When clicking with the mouse a column of the [Trigger conditions 1] or the [Trigger conditions 2] in the right side of the [Data item], since the selection items (OFF/ON/Neglect) are displayed, select applicable ones. |

(Note)

Since the [Total of expected record file size(KB)] at the right side of [2.1Trigger record system selection] window and the [Free hard disk area(KB)] at the bottom of the window are displayed, confirm if the free area is enough in recording the data. However, be careful to note that if the free hard disk area of the personal computer is more than 2 GB, values may not be displayed correctly.

- (2) Press the [Setting complete(F1)] to return to the [Network Map Display].
- (3) When starting the trigger record inspection, press the [Trigger inspection start(F9)] in the window of the [Network Map Display] to display the [Trigger inspecting] in red at the upper left in the window. Also the indication of the button is changed to the [Trigger inspection end(F9)]. When trigger conditions are met to start trigger recording, the red characters at the upper left in the window are changed to the [Trigger recording], and also the indication of the button is changed to the [Trigger recording].

| Network Map Display(Daikin Industr | ies, Ltd.,DIII-NET 1,DIII-N | ET) | |
|--|-----------------------------|--------------------|--------------------|
| System 2 Trig. Record Cent. Jarmet Install site Cent. Airmet Install site | | | |
| Up (F1) Map mode (F3) | Display mode (F4) | Record. mode (F5) | Cancel (Esc) |
| Down (F2) Period. rcd set (F6) | Period. rcd end (F7) | Trig. rcd set (F8) | Trig. rcd end (F9) |

(4) When ending the [Trigger inspecting] or the [Trigger recording] manually, press the [Trigger inspection end (F9)] button or the [Trigger record end(F9)] button. After starting trigger recording, and recording the operation data of a selected system for the [Record time before and after trigger] set by (1), the trigger recording is automatically ended.

4.3 Centralized operation

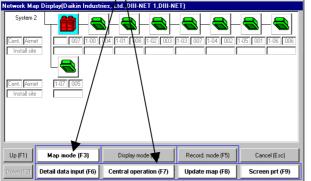
In the DIII-NET connection, the centralized operation of indoor units can be made from the Service Checker TYPE $\$.

(Notes)

If no centralized control equipment on the DIII-NET is provided, set centralized address. After connecting the Checker TYPE 3 to the DIII-NET, and setting customer data by the TYPE 3 software, display the window of the [Network Map Display].

To set in this window centralized address to each indoor unit by using a remote controller, centralized operation will become possible. From the next time, the centralized operation can be performed without setting the centralized address by using both customer data obtained this time and the network map without setting of centralized adress.

The window of the [Centralized operation] is displayed by pressing the button of the [Centralized operation(F7)] after selecting the [Map mode(F3)] in the window of the [Network Map Display].



The window of the [Centralized operation]

| Centralized O | peration(Daikin Indust | ies, Ltd.,DIII | -NET 1,DIII-NE | r) | |
|---------------|------------------------|----------------|-----------------|-------------------|-------------|
| 00 01 | 02 03 04 05 06 0 | 7 08 09 10 | D 11 12 13 | 14 15 | |
| 1 | | | | c | ancel (Esc) |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 1 | | | | | |
| Up (F1) | Ope. (F3) Temp. | Up (F5) | Cool. (F7) Heat | . (F8) 🛛 Fan (F9) | Error code |
| Down (F2) | Stop (F4) 25 C | D (F6) | Ope. mode | Cooling | EO |
| | | | | | |

In this window, air conditioners possible to make centralized operation displayed in order of centralized address by icons.

The icons are displayed with colors changed according to the state of an air conditioner.

| Color | Description |
|--------|--------------------|
| Red | Error state |
| Purple | Transmission error |
| Green | Operating state |
| Grey | Stopped state |

Procedures

(1)Make centralized operation by placing the cursor at the icon of target air conditioner, and pressing the buttons at the bottom in the window and inputting figures.

| Button, Column | Description | | | | |
|-----------------------------|---|-----------------------------|--|--|--|
| Up(F1) | Move upward in the window. | | | | |
| Down(F2) | Move downward in the window. | | | | |
| Operation(F3) | Command air conditioner to operate | | | | |
| Stop(F4) | Command air conditioner to stop | | | | |
| Up(F5) | Set temperature with a range of 0-35 . | | | | |
| OP(1 3) | * Even if an air conditioner with the maximum temperature rating of 25 | | | | |
| D(F6) | is set to 35 with[(F5)], the display is returned to 25 in 2-3 seconds. | | | | |
| Cooling(F7) | Issue cool mode command to air conditioner. | | | | |
| Heating(F8) | Issue heat mode command to air conditioner. | | | | |
| Fan(F9) | Issue fan mode command to air conditioner. | | | | |
| Error code | If error occurs, display error code. | | | | |
| Right side in the window | Same statement as remote controller is displayed with red characters the right side in the window.[Under Center Control] :Not possible to operate from Checke Not possible to operate from Checke other than stop.[Under Centralized Control] :If other centralized instrument has prohibited the operations of indoor ur from a remote controller at hand, this sign is displayed on each indoor unit. | r r nits s s to | | | |

(2) When ending this window, press the [Cancel(ESC)] button.

Chapter 5 Playing back of operation data

5.1 Playing of operation data

Procedures

(1) Press the [Play F2] in the [Main Menu] to display the window of the [Customer Data Selection]

| 🗊 Checke | r Type 3 | Software | | | | _ 8 × |
|--------------|----------|---------------------|--------|--------------------|---------|-------|
| Function (E) | Edit (E) | Option (<u>O</u>) | Window | ₩) | | |
| | | | | | | |
| | | Main | Menu | | × | |
| | | | | Record (F1) |] | |
| | | | | Play (F2) | | |
| | | | | Data transfer (F3) | | |
| | | | | Customer data (F4) | | |
| | | | | SS data (F5) | | |
| | | | | END (F12) | | |
| | | | | | Ver1.01 | |
| | | | | | | |

(2) The window of the [Customer Data Selection] is displayed below.

| Customer | Customer nam | Map name | System Nr | Model name | Ac | Re | Record start time | |
|----------|-----------------|------------|-----------|------------|-----|-----|-------------------|-----------------------|
| d001 | Daikin Industri | DIII-NET 1 | System 1 | VRV_PLUS(I | DII | Pe | 4/16/98 11:43:00 | Ope. data disp. (F1 |
| d001 | Daikin Industri | DIII-NET 1 | System 2 | VRV-K | DII | Pe | 4/16/98 11:43:00 | |
| d001 | Daikin Industri | DIII-NET 1 | System 2 | VBV-K | DII | Tri | 4/16/98 14:19:40 | |
| d001 | Daikin Industri | DIII-NET 1 | System 1 | RXY10K | DII | Pe | 4/16/98 12:25:20 | |
| 1002 | EX21 | DIII-NET 1 | System 1 | VRV PLUS(I | DII | Pe | 4/16/98 14:07:25 | Trig. cond. disp. (F. |
| d002 | EX21 | DIII-NET 1 | System 2 | VBV-K | DII | Pe | 4/16/98 14:07:25 | |
| d002 | EX21 | DIII-NET 1 | System 1 | VRV PLUSII | DII | Tri | 4/16/98 14:08:00 | |
| | | | | | | | | CSV data output (F |
| | | | | | | | | Delete (F9) |
| | | | | | | | | Cancel (Esc) |

Place the cursor in the target operation data.

[Operation data display(F1)]: The operation data are displayed. Proceed to (3). [Trigger condition display(F2)]: In case of operation data recorded by the [Trigger recording], the setting of the trigger recording at that time is displayed.

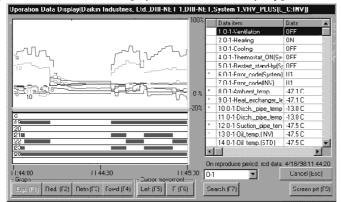
| Trigger Condition Display(Dail | kin Industrie | s, Ltd.,DIII | NET 1,DIII-NET) | |
|--|----------------|---------------|-----------------|-------------|
| 1. Record time 5 rr | ninutes | | | |
| 2. Trigger condition 2.1 Trigger record system (one s | system only) | | | |
| System No. File siz * System 2 32KB | e | | | |
| | | | | |
| Free disk area | 70488 | | КВ | |
| (If the free disk area is more th 2.2 Trigger condition | ian 2 GB, valu | es may not be | e correct.) | Close (Esc) |
| Data item | Trig. cond. 1 | | 2 🔺 | |
| 1 0-1-Ventilation | IGNORED | IGNORED | | |
| 2 0-1-Heating | IGNORED | IGNORED | | |
| 3 O-1-Cooling | IGNORED | IGNORED | | |
| 4 O-1-Thermostat_ON | IGNORED | IGNORED | | |
| 5 O-1-Restart_stand-by | IGNORED | IGNORED | | |
| 6 O-1-Error_code | ERROR | IGNORED | | |
| 7 0-1-Compressor_2(STD) | IGNORED | IGNORED | | |
| 90.1.Fan 1H | IGNORED | IGNORED | | |
| | | | | |

[CSV data output(F3)]: The data of CSV format possible to be read by commercial integrated software are output. Proceed the [5.3 CSV output].

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| [Delete(F9)]: | The operation data are deleted. |
|----------------|--|
| [Cancel(ESC)]: | The return to the [Main Menu] is made. |

(3) The window of the [Operation data display] is shown below.



Refer to the "4.1.4 Displaying of operation data" regarding detailed display.
 When clicking the mouse on a graph, that data at the time are displayed in the right list. The following buttons function to a graph.

| Description |
|--|
| A graph is displayed by shortening the display time of the graph. |
| A graph is displayed by lengthening the display time of the graph. |
| A graph is moved to the left in the window. |
| A graph is moved to the right in the window. |
| The cursor on a graph is moved to the left in the window. |
| The cursor on a graph is moved to the right in the window. |
| Screen is printed. |
| |

(4) The maximum and minimum analog data, and error code can be searched.

Digital data cannot be searched.

Press the [Search(F7)] button by placing the cursor in data item to be searched in the list at the right in the window.

[1] In case of analog data

| Operation Data Search(15 0-1-Inverter_frequency) | | | | | | | | |
|--|----------------------|--|--|--|--|--|--|--|
| • 0 min. | Search from top (F1) | | | | | | | |
| C 0 max. | Search next (F2) | | | | | | | |
| C Minimum value | Cancel (Esc) | | | | | | | |

Input the conditions at the left in the window.

| [Search from the top(F1)]: | Searching is made from the top of operation data. |
|----------------------------|---|
| [Search next(F2)]: | Searching is made in the direction from a cursor |
| | position on a graph to time lapse. |
| [Cancel(ESC)]: | Returning to the window of the [Operation Data |
| | Display]. |
| | |

[2] In case of error code



Data with error code is searched.

| [Search from the top(F1)]: | Searching is made from the top of operation data. |
|----------------------------|---|
| [Search next(F2)]: | Searching is made in the direction from a cursor |
| | position on a graph to time lapse. |
| [Cancel(ESC)]: | Returning to the window of the [Operation Data |
| | Display]. |

(5) Press the [Cancel(ESC)] button to return to the window of the [Customer Data Selection].

5.2 Playing back network map

The network map is played back from customer data.

Procedures

- (1) Press the [Customer data(F4)] in the [Main Menu] to display the window of the [Customer
 - Selection].

| 🔁 Checker | | | | | | | | _ <i>0</i> × |
|---------------|----------|-------------|--------|--------------------|---|---------|----------|--------------|
| Function (E) | Edit (E) | Option (()) | Window | ₩) | | | | |
| | | | | | | | | |
| | | 💐 Main | M | | | | × | |
| | | an Main | мепи | 20 | | | <u> </u> | |
| | | | | Record (F1) | | | | |
| | | | | L | | | | |
| | | | | Play (F2) | | | | |
| | | | | | | | | |
| | | | | Data transfer (F3) | | | | |
| | | | | | | | | |
| | | | | Customer data (F4) | J | | | |
| | | | | | 1 | | | |
| | | | | SS data (F5) | | | | |
| | | | | END (510) | 1 | | | |
| | | | | END (F12) | | | | |
| | | | | | | Ver1.01 | | |
| | | | | | | | | |
| | | | | | | | | |
| Press F1 to F | 5 or F12 | Key. | | | | | | |

(2) The window of the [Customer Selection] is displayed below.

Press the [Select customer(F2)] to display the window of the [Network Map Selection].

| Customer ID | Customer name | Record only (F |
|-------------|-------------------------|-------------------------------------|
| id001 | Daikin Industries, Ltd. | (No data control |
| id002 | EX21 | |
| | | Select customer |
| | | |
| | | |
| | | |
| | | New customer (|
| | | New customer (|
| | | New customer (|
| | | |
| | | New customer (Edit cust. data (|
| | | |
| | | |

(3) The window of the [Network Map Selection] is displayed below.

By placing the cursor in the target name of the network map, press the [OK(F1)] button to proceed the window of the [Network Map Display].

| Map name | Access method | Model name | Date | |
|----------|---------------|------------|--------|------------------|
| Office | DIII-NET | [| 4/7/98 | OK (F1) |
| | | | | |
| | | | | |
| | | | | New (F2) |
| | | | | |
| | | | | |
| | | | | Edit map name (F |
| | | | | |
| | | | | |
| | | | | Delete (F9) |
| | | | | |
| | | | | |
| | | | | Cancel (Esc) |

(4) The window of the [Network Map Display] is displayed below.

| Network Map Di | isplay(Daikin Industr | ies, Ltd.,DIII-NET | 1,DIII-NE | T] | | | |
|------------------------------|----------------------------------|--------------------|-----------|-------------------|----------|--------|------------|
| System 1 | | | | | | | |
| Cent. Airnet Install site | | | | | 024 | | 028 |
| Cent. Airnet | | | | 015 | | 027 | 022 |
| Install site | | | | | | | |
| Cent. Airnet Install site | | 020 010 | 019 | 026 | 011 | 009 | 018 |
| Up (F1) | Up (F1) Map mode (F3) | | (F4) | Record. mode (F5) | | Cance | el (Esc) |
| Down (F2) De | Down (F2) Detail data input (F6) | | on (F7) | Update r | nap (F8) | Screen | n prt (F9) |

[UP(F1)], [Down(F2)]: The window is scrolled upward and downward respectively.[Detail data input(F6)]: The detail data of an air conditioner designated by cursor are displayed.

[Print screen(F9)]: Screen is printed.

[Cancel(ESC)]: Return to the window of the [Network Map Selection].

5.3 CSV output

The data of CSV format possible to be read into by a commercial integrated software are output.

Procedures

1) Press the [Play(F2)] in the [Main Menu] to display the window of the [Customer Data Selection]

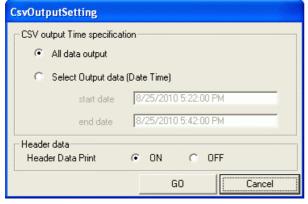
| 🗊 Checker | Туре З | Software | | | | | _ 8 × |
|---------------|-------------------|------------|-----------|--------------------|---------|----------|-------|
| Function (E) | Edit (<u>E</u>) | Option (() | Window (V | 2 | | | |
| | | | | | | | |
| | | 💐 Main | Menu | | 2 | <u>.</u> | |
| | | | | Record (F1) | | | |
| | | | | Play (F2) | | | |
| | | | | Data transfer (F3) | | | |
| | | | | Customer data (F4) | | | |
| | | | | SS data (F5) | | | |
| | | | | END (F12) | | | |
| | | | | | Ver1.01 | | |
| | | | | | | | |
| Press F1 to I | | | | | | | |

2) The window of the [Customer Data Selection] is displayed below.

Press the [CSV data output(F3)] to display the window of the [Save with file name].

| Customer | Customer nam | Map name | System Ni | Model name | Ac | Re | Record start time | |
|----------|-----------------|------------|-----------|------------|-----|------|-------------------|------------------------|
| d001 | Daikin Industri | DIII-NET 1 | System 1 | VRV_PLUS(I | DII | Pe | 4/16/98 11:43:00 | Ope. data disp. (F1) |
| d001 | Daikin Industri | DIII-NET 1 | System 2 | VRV-K | DII | Pe | 4/16/98 11:43:00 | |
| d001 | Daikin Industri | DIII-NET 1 | System 2 | VRV-K | DII | Tri | 4/16/98 14:19:40 | |
| d001 | Daikin Industri | DIII-NET 1 | System 1 | RXY10K | DII | Pe | 4/16/98 12:25:20 | |
| d002 | EX21 | DIII-NET 1 | System 1 | VRV_PLUS(I | DII | Pe | 4/16/98 14:07:25 | Trig. cond. disp. (F2) |
| d002 | EX21 | DIII-NET 1 | System 2 | VRV-K | DII | Pe | 4/16/98 14:07:25 | |
| d002 | EX21 | DIII-NET 1 | System 1 | VRV_PLUS(I | DII | Trie | 4/16/98 14:08:00 | |
| | | | | | | | | |
| | | | | | | | | Delete (F9) |
| | | | | | | | | |
| | | | | | | | | Cancel (Esc) |

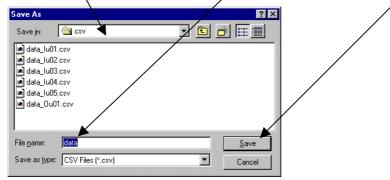
3) CSV file output setting



set output date and header data

4) The window of the [Save with file name] is displayed below.

Select the [Saving site] to input the [File name] and press the [Save] button.



5) While outputting CSV, the following window is displayed

| Checker Type | 3 Software | |
|--------------|---------------------------|--|
| | CSV data is being output. | |
| 1 | 26% | |
| | Cancel (Esc) | |

(Notes)

- 1. In the CSV file, one file per an air conditioner is output. In case of one outdoor unit and eight indoor units, one CSV file for the outdoor unit and eight CSV files for the eight indoor units are output respectively.
- 2. If the size of CSV file has become bigger because of being recorded for a long time and resultantly, the integrated application software can not read in by one file, the file may be divided into multiple files automatically.
- * Estimated time in CSV data processing

In the DIII-NET connection, if one outdoor unit and eight indoor units are periodically recorded at intervals of 5 seconds for 3.8 days, the file size of the operation data will be approximately 32MB. The CSV file size for the outdoor unit and the indoor units becomes approximately 29MB and 5MB.

(Since the size of CSV file depending on the model of an air conditioner and its capability respectively, note that the above time is only an estimation.)

5.4 Data transfer

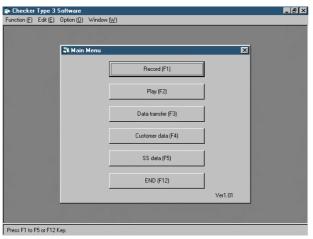
To exchange customer data and operation data, data transfer to a floppy disk and other devices is possible.

(Note)

In case of exchanging data between personal computers, copy the data to a folder (directory) installed the TYPE 3 software in the section of the "1.1 Installing TYPE 3 software".

Procedures

(1) Press the [Data transfer(F3)] in the [Main Menu] to display the window of the [Data Transfer].



(2) The window of the [Data Transfer] is displayed below.

| ۵ | Data Transfer | | | | | | | | | |
|---|---------------|-----------------|------------|--------|-------------|----------|-----------|----------------------|-----------------|--------|
| | Checker T | ype 3 Software | | | | | Designate | source or destir | nation of trans | fer |
| | | Operation | ion data | | | | Drive na | | | |
| | | C Custon | | | | Folder n | ame 📄 cs | ecker3 v Idata | | |
| | Customer | Customer nam | Map name | System | | | Customer | Customer nam | Map name | System |
| | id001 | Daikin Industri | DIII-NET 1 | System | | | id003 | Company C | DIII-NET 1 | System |
| | id001 | Daikin Industri | DIII-NET 1 | System | . (51) | | id003 | Company C | DIII-NET 1 | System |
| | id001 | Daikin Industri | DIII-NET 1 | System | > (F1) | | id003 | Company C | DIII-NET 1 | System |
| | id001 | Daikin Industri | DIII-NET 1 | System | | | id003 | Company C | DIII-NET 1 | System |
| | id002 | EX21 | DIII-NET 1 | System | | | | | | |
| | id002 | EX21 | DIII-NET 1 | System | | - 1 | | | | |
| | id002 | EX21 | DIII-NET 1 | System | < (F2) | | | | | |
| | | | | | Cancel (Esc | | • | | | Þ |

The left in the window is a site on the hard disk of a personal computer installed the TYPE 3 software(fixed).

The right in the window is a destination of transfer. The [Drive name] and the [Folder name] (directory name) can be changed.

The unit of data transfer consists of two: [(1)Operation data and Customer data] and [(2)only Customer data].

- The data of network map are included in the customer data
- [1] Transferring operation data and customer data
 - A. In case of transferring data from the hard disk of a personal computer to a floppy disk or other devices
 - 1. Select the [Operation data] at the left side in the window before selecting the transferring operation data in the list below.
 - 2. Select the destination of transfer by using the [Drive name] and the [Folder name] (directory name) at the right side in the window.
 - 3. Pressing the $[\rightarrow(F1)]$ to transfer the operation data and customer data.

- B. In case of transferring data from a floppy disk or other devices of a personal computer to the hard disk
 - 1. Select the [Operation data] at the upper left in the window.
 - 2. After setting the floppy disk or other devices to the personal computer, select the source of transfer by using the [Drive name] and the [Folder name](directory name) at the right side in the window.
 - 3. By using the list below the [Folder name], select the operation data.
 - 4. Pressing the $[\leftarrow (F2)]$ to transfer the operation data and customer data.
- C. If the operation data with the same title already exists, the following window is displayed.

[Yes(F1)]: Only this operation data is overwitten.

[Overwrite all(F2)]: All the operation data after this are overwitten.

[No(F3)]: While not overwriting this operation data, the next operation data are successively being transferred.

[Cancel(ESC): Data transfer is stopped.

| Checker Type 3 Software | | | | | | |
|---|-------------------------|-------------------|------------------|--|--|--|
| Same operation data already exists. | | | | | | |
| | Current operation data | | | | | |
| Customer ID | id001 | System No. | System 1 | | | |
| Customer name | Daikin Industries, Ltd. | Record start time | 4/16/98 11:43:00 | | | |
| Network map name | DIII-NET 1 | File size | 30KB | | | |
| Overwrite the following new operation data? | | | | | | |
| Customer ID | id001 | System No. | System 1 | | | |
| Customer name | Daikin Industries, Ltd. | Record start time | 4/16/98 11:43:00 | | | |
| Network map name | DIII-NET 1 | File size | 30KB | | | |
| Yes (F1) | Yes to all (F2) | No (F3) | Cancel (Esc) | | | |

D. If the customer data with the same title already exists, the following window is displayed. The functions of the buttons are same as the above [C].

| Checker Type 3 Software |
|---|
| Same customer data already exists. |
| Current customer data |
| Customer ID id001 |
| Customer name Daikin Industries, Ltd. |
| Overwrite the following new customer data? |
| Customer ID id001 |
| Customer name Daikin Industries, Ltd. |
| Yes (F1) Yes to all (F2) No (F3) Cancel (Esc) |

[2] Transfer only customer data

Same as the [[1]Transferring operation data and customer data] other than selecting the [Customer data] at the upper left in the window.

(3) After ending the data input, press the [Cancel(ESC)].

Specifications

Specifications of Service Checker TYPE 3.1

| Item | Specifications | | |
|---------------------|---|--|--|
| External | 180(width) x 150(depth) x 45(height)mm (excluding projecting sections) | | |
| dimensions | | | |
| Weight | Approx. 700g | | |
| Power supply | 5VDC, 300mA(USB B-type) [use PC, USB-adapter, USB-battery]. | | |
| Power consumption | Approx. 1.2W | | |
| Temperature and | -10 to 55 (-10 to 35 for AC adapter), 95% RH or less (no | | |
| humidity conditions | condensation) | | |
| RS-232C interface | Asynchronous (19200bps), D-sub 9-pin male (straight connection to a | | |
| | personal computer) | | |
| Sensor input | Temperature at 6 points (one point for discharge pipe), pressure at 2 | | |
| section | points (high pressure and low pressure). Two out of the 6 points can be | | |
| | switched to receive voltage signals (0 to 5VDC or 0 to 1VDC). | | |

Standard configuration

| Product name | Part number | Description | |
|------------------|----------------|---|--|
| Checker TYPE 3.1 | - | (1) Service Checker TYPE3.1 (2) RS-232C cable for personal computers (D-sub 9-pin female/ D-sub 9-pin female straight, 2m, shield cable) (3) USB cable (A-type / B-type, 2m, shield cable) | |
| TYPE3 Software2 | 999151T | Software for English version Windows and this manual | |

Option parts

| Product name | Part number | Description |
|--------------|----------------|---|
| Sensor Kit | 999107T | (1) Outside temp. thermistor (2m) (2) Heat exchanger temp. thermistor (2m) (3) Dischage pipe temp. thermistor (2m) (4) Sucion pipe temp. thermistor (2m) (5) Indoor air temp. thermistor (2m)[3 sets] (6) High pressure sensor (2m) (7) Low pressure sensor (2m) (8) Optional cable (2m)[2 sets] (9) Union pipe joint/flare nut [2 sets] * All cable is none shield cable. |

List of Applicable Models

Support model and information see Internet Web page.

http://airnnet.jpn.org/chk/

https://daikin-p.ru/catalog/vse-zapchasti-kondicionerov-daikin/zapchast-daikin-999165t-servicing-checker-type3set

Please follow Daikin's purchasing procedure to purchase the checker and parts.

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The above specifications are valid as of Nov, 2012 and they may be modified for improvement without any advance notice.

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