

Instruction Manual

# **Dosimeter Setting Device**

For Electric Personal Dosimeter Dose-i

(Unit:rem, Version:1.05 English)

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Fuji Electric Co., Ltd.

# Foreword

Thank you for purchasing the Dosimeter Setting Device; a product by Fuji Electric Co., Ltd. This User's Manual is intended to provide the descriptions of name of parts, functions, and operational instructions for proper use of this product. Please read this manual carefully before operating.

# **Notes on Safety**

	Do not use the Setting Device if any smoke, odor, or noise is present.		
	Do not insert not designated socket.		
4	Do not use cables other than provided.		
	Do not disassemble, repair, or alter the Dosimeter Setting Device.		
	Use the dosimeters with power ON.		
	May lost data if power turned OFF.		

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# 1. Introduction

## 1.1 Overview

The Dosimeter Setting Device displays and updates the dosimeter information via infrared data communication interface with Electric Personal Dosimeter Dose-i.

The data trend read out from the dosimeter can be exported.

The Dosimeter Setting Device Program supplied with the Dosimeter Setting Device is based on the Microsoft® Windows® operating system.

# 1.2 Product Package

(1) Program for setting device and installation CD	1
(2) Infrared Data Communication Device	1
(3) Instruction manual (This document)	1

# 2. Mechanical characteristics

# 2.1 General

- (1) Basic functions:
  - a. Reading out setting value and measurement data from dosimeters
  - b. Displaying data trend in table on screen or graph on EXCEL sheet.
  - c. Writing user-edited setting value to dosimeters
- (2) Communicate with : Electric Personal Dosimeter Dose-i
- (3) Temperatures : 0 to 40°C
- (4) Humidity : 30 to 85%
- (5) Power supply : DC4.5 to 6.0 V (supplied from connected computer)

## 2.2 Required Environment

The following hardware of (1) and software of (2) are required

(1) Hardware

Personal Computer (hereinafter, PC) that meet the following specifications

• CPU	: Pentium 2GHz, or more
Memory	: 1GB, or more
Hard Drive	: Free disc space of 20 MB, or more
<ul> <li>Display</li> </ul>	: Resolutions 800 $\times$ 600, or more
Communications Interface	: USB $ imes$ 1ch
Others	: Mouse and keyboard

#### (2) Software

The PC mentioned in (1) should have the following software installed.

- Operating system : Windows® XP/7/8/8.1 operating system
  - Others : Microsoft® Office (EXCEL)
- \* Microsoft®, Windows®, Windows logo®, Windows Start logo® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- \* Screen shot(s) reprinted with permission from Microsoft Corporation.

# 3. Descriptions and setting-ups

# 3.1 System Configuration

Dosimeter Setting Device are consist of infrared communication device (hereinafter "IR communication device") and PC which installed the Dosimeter Setting Device Program.



System Configuration

# 3.2 Product configuration

The configuration of the IR Communication Device



#### 3.3 Setting up

IR communication driver and Dosimeter Setting Device Program are needed for using this software.

#### 3.3.1 Installation procedure for IR communication driver

The installation procedure for IR communication driver is as follows.

- (1) Insert the Program installation CD into the CD-ROM drive of PC.
- (2) Click "Drivers" folder.
- (3) Select following installer matching your computer and start it.

Windows XP/7 :"Windows7" Windows 8/8.1 :"Windows8"

(4) Please install according to installation manual in each folder.

#### 3.3.2 Installation procedure for Dosimeter Setting Device Program

The installation procedure for Dosimeter Setting Device Program is as follows.

- (1) Insert the Program installation CD into the CD-ROM drive of PC.
- (2) Click "Dose-i\_Tool" folder.
- (3) Execute "Setup.exe" file

Click	"Next".
-------	---------



Choose an installation directory, and then click "Next"



Click "Next".



Click "Close".



3.3.3 Hardware setup procedure

The Hardware setup procedure is as follows.

- (1) Insert the USB connector of IR Communication Device into USB port of PC.
- (2) Wait for a few second by recognition in PC.

# 4. Operational Instructions

# 4.1 Functional Outline of Program

Functional Outline of The Dosimeter Setting Device Program is shown below:

Screen Name	Reference S	ection Function
Start UP		
Version Screen	4.2	Displays version of the software
Main Menu	4.4	Select function
Dosimeter Settings	4.5	Update ID number and action of the dosimeter
→ Indication Display	4.6	Displays measurement information
Data Trending Mode	4.7	Select trend type of the dosimeter and display type for data trend
Table Display	4.7.1	Displays data trend in a table
Graph Display	4.7.2	Displays data trend in a graph
Manual Calibration	4.8	Update calibration factor with direct input
Maintenance Mode	4.9	Select check action
System Settings	4.10	Update operating parameter
Client control No.	4.11	Update client control number
Alarm Settings	4.12	Update alarm threshold (dose/ dose rate)
Counts Readout	4.13	Displays internal counts value
Maintenance Settings	4.14	Update the parameter for indicator and buzzer

# 4.2 Starting the Program

(1) Select the icon [Dose-i]



#### Start icon of the Program

(2) The software, dosimeter setting device program, starts running, then the Version window will appear.

Check the COM port and click "Start".

💂 DOSE-i Series-Version	×
<b>Dosimeter Setting</b> COM Port	Tool (DOSE-i Tool) Ver. 1.05
COM4 Prolific USB-to-	Serial Comm Port 🛛 🚽
Device Display Enter Setting Device No.	No. 01
	Exit Start

#### Version window

		For IrDA COM port number on USB-serial, serial port number following		
	serial port number on your computer (COM1, COM2) will be assigned.			
<u> </u>	odution	(e.g. from COM3)		

## 4.3 Screen interface

The fields and buttons on the following screen are common to all Screens. See the following sections for details of each Screen.



#### Common features of the menu Screen (functions and layout)

These messages will be indicated in the Message box. The message severity is as follows;

Severity	Messages	Descriptions
1	LOW Battery	Dosimeter's battery power is critically low.
2	Please place Dosimeter into	Communication with dosimeter has not been
	Reader	established yet.
3	Maintenance mode	Dosimeter is in Maintenance mode.
4	Processed Successfully	Communication between the setting device and
		dosimeter has been established.
5	Initializing	In the process of establishing communication
		between the setting device and a dosimeter.

\* **Note:** Features on the menu will function only when the dosimeter is in communication. If "Transmission" is **Red blinking**, place/replace the dosimeter, and then click "Read again" button. Data communication will be started/resumed, and "Transmission" will be **Blue**.

#### 4.4 Main Menu

		03/23/2015 09
Dosimeter Settings	Client Control No.	Transmission
Indication Display	Alarm Settinçs(Dose/Dose rate)	Message Processed successfully
Data Trending Mode	Counts Readout	
Man ual Calibration	Maintenance Settings	
Main tenance Mode		
System Settings		
		COME
		Exit

Fig. 4-1 Main Menu Screen

- -- All functions that are performed via data communication with dosimeters are displayed.
- -- Turned into green by first click and go to the screen of the selected function by second click.

#### <Menu Button>

Dosimeter Settings	Goes to the next Screen: Fig. 4-2
Indication Display	Goes to the next Screen: Fig. 4-3
Data Trending Mode	Goes to the next Screen: Fig. 4-4-1
Manual Calibration	Goes to the next Screen: Fig. 4-5
Maintenance Mode	Goes to the next Screen: Fig. 4-6
System Settings	Goes to the next Screen: Fig. 4-7
Client Control No.	Goes to the next Screen: Fig. 4-8
Alarm Settings	Goes to the next Screen: Fig. 4-9
Counts Readout	Goes to the next Screen: Fig. 4-10
Maintenance Settings	Goes to the next Screen: Fig. 4-11

COM_End	Finishes the communication with a dosimeter.		
Exit	Exit from Dosimeter Setting Device Program		
Read again*	Re-starts communication with a dosimeter. If it starts communication		
	by establishing transmission, it processes data read out		
	automatically.		
	*: This is indicated while communication is not established.		

# 4.5 Dosimeter Settings

DOSE-i Series-Dosimeter Settings			
View Client Control No. 121845	Setting	03/23/2015	11:20 or
Setting	Return Reminder	Processed	
Alarm Duration 1 🗾 min	Readcut Trend	successfully	
Timer Set 0009 hr 30 min			
Runtime Dispay Countup 💌			
Monitoring Beep Step			
0.2 mrem			
Data Trending Interval			
1 min 💌			
Trend Format 000.0 mrem			
Self Check Mode OFF 💌 count			
Self Oheck Duration		CON	/LEnd
0 min	N	/rite Ma	enu

Fig. 4-2 Dosimeter Settings Screen

- -- Display the Dosimeter Settings data read out from the dosimeter.
- -- Write the edited settings data to the dosimeter by click "Write" button.

#### <View>

Name	Definition, range and unit of the functions	
Client Control No.	Dosimeter ID. number	000001 to 999999

# <Setting>

Name	Definition, range and unit of the functions	
Alarm Duration	Alarm duration length	1 to 9 min
Timer Set	Alarm threshold for operation time	0000h:01min to 9999h:59min
Runtime Display	Mode selection for indicating	Count down
	operation time.	Count up
Monitoring Beep Step	Beep activation intervals according	OFF / 0.1 / 0.2 / 1 / 10 mrem
	to the dose increment.	
Data Trending Interval	Data Trending intervals	15 sec/ 30sec/ 1 min/ 5 min/ 10
		min/ 30 min/ 60 min/ 90 min
Trend Format	Shifts the decimal point for data	000.0 / 0000 mrem
	trending.	

Self Check Mode	Enables/ disables Self check, and	OFF / 1/3/5/10/20/40/80/100
	sets the check count value.	count
Self Check Duration	Decision time for Self check.	1 to 10 minutes
		(Note) The time is displayed
		except when the feature is
		disabled.
Return Reminder	Alarm not to forget to get a	ON / OFF
	dosimeter back.	
Readout Trend	Enables/ disables data acquisition	ON / OFF
	through a dedicated external device.	

COM_End	Finishes the communication with a dosimeter.
Write	Write the data displayed on the screen to the dosimeter by USB
	communication.
Menu	Back to the Main Menu screen: Fig. 4-1
Read again*	Re-starts communication with a dosimeter. If it starts communication by
	establishing transmission, it processes data read out automatically.
	*: This is indicated while communication is not established.

# 4.6 Indication Display

📕 DOSE-i Series-Indication Display		
View Client Control No. 121845	View Hp(10) Accumulated Dose 0.000 mrem	03/23/2015 11:23
Timer Set 9 hr 30 min Gamma Calib.Factor 100 %	Runtime 0 hr 11 min	Message Processed successfully View Unit rem
	Rea	ad Menu

Fig. 4-3 Indication Display Screen

-- Display the measured values read out from the dosimeter.

#### <View>

Name	Definition, range and unit of the functions	
Client Control No.	Dosimeter ID. number 000001 to 999999	
Timer Set	Alarm threshold for operation time	0000h:01min to 9999h:59min
Gamma Calib. Factor.	Calibration Factor for gamma-ray Gamma: 60 to 160%	
Hp(10) Accumulated	Accumulated dose of gamma-ray.	0.0 to 999999.9 mrem
Dose		
Runtime	Operation time length of the	0000 h 00 min to 99 h 59 min
	dosimeter.	

COM_End	Finishes the communication with a dosimeter.
Read	Starts reading out for data display. This will be executed from
	initializing the already established communication even during
	transmission.
Menu	Back to the Main Menu screen: Fig. 4-1
Read again*	Re-starts communication with a dosimeter. If it starts
	communication by establishing transmission, it processes data read
	out automatically.
	*: This is indicated while communication is not established.

# 4.7 Data Trending Mode

💂 DOSE-i Series-Data Trending Mod	B	
View	View	03/23/2015 11:24
Client Control No. 121845	Hp(10) Accumulated Dose	Transmission
Data Trendings 12		Message
Data Trending Interval		Processed successfully
Trend Format 000.0 mrem		
		Please set the macro effectively when you display the Excel graph.
Trend Display Selection Table Display		
Graph Display	Runtimehr12 min	
Please specify the ray kind on the table screen when you display the graph	Unit mrem	COM_End
		Read Menu

# Fig. 4-4-1 Data Trending Mode Screen

- -- Display the trend setting data read out from the dosimeter.
- -- Select the display type of data trend.

<view></view>
---------------

Name	Definition, range and unit of the functions	
Client Control No.	Dosimeter ID. number	000001 to 999999
Data Trendings	Data trending counts.	1 to 600
Data Trending Interval	Data Trending intervals	15 sec/ 30sec/ 1 min/ 5 min/ 10
		min/ 30 min/ 60 min/ 90 min
Trend Format	Shifts the position of decimal point	000.0 / 0000 mrem
	for data trending.	
Hp(10) Accumulated	Accumulated dose of gamma-ray	0.0 to 999999.9 mrem
Dose		
Runtime	Operation time of the dosimeter	0000 h 00 min to 9999 h 59 min
Unit	Measurement unit	mSv, mrem

Table Display	Reads out the Data Trend, and then goes to the next Screen: Fig. 4-4-2
Graph Display	Reads out the Data Trend, and then goes to the next Screen: Fig. 4-4-3
COM_End	Finishes the communication with a dosimeter.
Read	Starts reading out for data display. This will be executed from initializing
	the already established communication even during transmission.
Menu	Back to the Main Menu screen: Fig. 4-1
Read again*	Re-starts communication with a dosimeter. If it starts communication by
	establishing transmission, it processes data read out automatically.
	*: This is indicated while communication is not established.

	The prompt window <communication error=""> will appear during data</communication>
Attention	readout if a new trend does not exist.
	You need to wait until a data trending step given in the Dosimeter
	Settings window has passed, and then start data readout.

# 4.7.1 Table Display

DOSE-i Ser Display of t Client Con Hp(10) Acc	ies-Data Trendir trend data trol No.	121845 Numl 121845 Numl 1000 mrem	ber d Interval	12 1min	X 03/23/2015 1126 Transmission
No.	Elapsed time	Dose Interval (mrem)	Accumulate Dose (mr	d em)	Message
1	00.01.00	0.0	C	0.0	successfully
2	00.02.00	0.0	(	0.0	
3	00:03:00	0.0	(	0.0	Please set the macro
4	00:04:00	0.0	C	0.0	effectively when you display the Excel graph.
5	00:05:00	0.0	C	0.0	
6	00:06:00	0.0	C	0.0	
7	00:07:00	0.0	C	0.0	
8	00:08:00	0.0	(	0.0 🖵	
			Ba	ack	COM_End

Fig. 4-4-2 Table Display Screen

-- Display the Trend data read out from a dosimeter in table.

# <View>

Name	Definition, range and unit of the functions		
Client Control No.	Dosimeter ID. number	000001 to 999999	
Hp(10) Accumulated	Accumulated dose of gamma-ray.	0.0 to 999999.9 mrem	
Dose			
Number	Data trending counts.	1 to 600	
Trending Interval	Data trending intervals	15 sec/ 30sec/ 1 min/ 5 min/ 10	
		min/ 30 min/ 60 min/ 90 min	
Elapsed Time	Elapsed time	00:00:00 to 99:99:99	
Dose Interval	Dose per trend interval duration	0 to 9999 mrem	
		or 0.0 to 999.9 mrem	
Accumulated Dose	Accumulated value of time dose	0.0 to 999999.9 mrem	

COM_End	Finishes the communication with a dosimeter.		
Back	Back to the Starts reading out for data display. This will be executed from		
	initializing the already established communication even during		
	transmission.		
Menu	Back to the Main Menu screen: Fig. 4-1		
Read again*	Re-starts communication with a dosimeter. If it starts communication by		
	establishing transmission, it processes data read out automatically.		
	*: This is indicated while communication is not established.		

# 4.7.2 Graph Display



#### Fig. 4-4-3 Graph Display Window

-- Display the trend data read out from a dosimeter in EXCEL window.

End	Close this Graph Display window.
-----	----------------------------------

# 4.8 Manual Calibration

💂 DOSE-i Series-Manual Calibration		
View Client Control No. 121845 Gamma Calib. Factor	Setting Gamma Calib. Factor	03/23/2015 11:32 Transmission Message Processed puccessfully
Gamma Accumulated Dose 0.000 mrem It indicates to 5th rank below the decimal point	MAX-140 MIN-60 (step: 1)	
		0045-1
	<u> </u>	/rite Menu

Fig. 4-5 Manual calibration Screen

- -- Display accumulated dose and calibration factor read out from the dosimeter.
- -- Write the edited calibration factor to the dosimeter by click "Write" button.

#### <View>

Name	Definition, range and unit of the functions		
Client Control No.	Dosimeter ID. number	000001 to 999999	
Gamma Calib. Factor	Calibration Factor read out from a	60 to 140%	
	dosimeter.	(1 Pitch)	
Gamma Accumulated	Accumulated dose	0.0 to 999999.9mSv	
Dose			

#### <Setting>

Name	Definition, range and unit of the functions	
Gamma Calib. Factor	Calibration Factor for gamma-ray 60 to 140%	
		(1 Pitch)

COM_End	Finishes the communication with a dosimeter.	
Write	Write the date displayed on the screen to the dosimeter by USB	
	communication.	
Menu	Back to the Main Menu screen: Fig. 4-1	
Read again*	Re-starts communication with a dosimeter. If it starts	
	communication by establishing transmission, it processes data	
	read out automatically.	
	*: This is indicated while communication is not established.	

# 4.9 Maintenance Mode

💂 DOSE-i Series-Maintenance Mode		
		03/23/2015 09:59
		Transmission
View	Setting	Message
		Processed
Client Control No. 121845	Vaintenance	
	LOD Check Mode	
	Buzzer Volume Check Mode	
		COMEnd
		CUMLENG
		Write Menu

Fig. 4-6 Maintenance Mode Screen

-- For dosimeter maintenance and checking work, you can write (switched mode of Maintenance mode and selected mode) to a dosimeter.

#### <View>

Name	Definition, range and unit of the functions	
Client Control No.	Dosimeter ID. number	000001 to 999999

# <Setting>

Name	Definition, range and unit of the functions		
Maintenance	LCD Check Mode	: Turn on all of LCDs.	
	Count Value Display Mode:	: Indication of internal counter	
	Buzzer Volume Check Mode	:: Activation of continuous buzzer.	
	Exit Maintenance	: Exit from Maintenance mode.	

COM_End	Finishes the communication with a dosimeter.		
Write	Write the data displayed on the screen to the dosimeter by USB		
	communication.		
Menu	Back to the Main Menu screen: Fig. 4-1		
Read again*	Re-starts communication with a dosimeter. If it starts communication by		
	establishing transmission, it processes data read out automatically.		
	*: This is indicated while communication is not established.		

# 4.10 System Setting

DOSE-i Series-System Settings		
Setting Return Remind Time 10 MIR-1 MAX-39(step1)		03/23/2015 11:33 Transmission Message Processed successfully
Setting Round Off Dose blank: OFF check: ON blank:All check: Gamma only	Setting IP Dosimeter Unit OFFSv ONrem	Client Control No.
		COM_End Write Menu

Fig. 4-7 System Setting Screen

-- Display the operating parameter read out from the dosimeter.

-- Write the edited operating parameter to the dosimeter by click "Write" button.

#### <View>

Name	Definition, range and unit of the functions		
Client Control No.	Dosimeter ID. number	000001 to 999999	

# <Setting>

Name	Definition, range and unit of the functions		
	Reminder time not to forget to get	1 to 99	
Return Remina Time	the dosimeter back	(1 Pitch)	
Bound Off Doop	ON/OFF of rounding off for		
Round On Dose	integrated dose.		
Health Check for Gamma	Enable/disable soundness check	OFF / ON	
	for gamma detector		
Desimeter Unit	Switches display unit of the	OFF / ON	
Dosimeter Unit	display between Sv and rem.	(Sv) (rem)	

COM_End	Finishes the communication with a dosimeter.		
Write	Write the data displayed on the screen to the dosimeter by USB		
	communication.		
Menu	Back to the Main Menu screen: Fig. 4-1		
Read again*	Re-starts communication with a dosimeter. If it starts communication by		
	establishing transmission, it processes data read out automatically.		
	*: This is indicated while communication is not established.		

## 4.11 Client Control Number

Number	
Setting Client Control No. 121845 MAX-999999 (step: 1)	03/23/2015 10:02 Transmission Message Processed successfully
	COM_End
	Setting Client Control No. 121845 MAX-9999999 (step: 1)

Fig. 4-8 Client Control Number Screen

-- Display the Client Control Number read out from the dosimeter.

-- Write the edited Client Control Number to the dosimeter by click "Write" button.

#### <View>

Name	Definition, range and unit of the functions		
Client Control No.	Dosimeter ID. number 000001 to 999999		

# <Setting>

Name	Definition, range and unit of the functions	
Client Control No.	Dosimeter ID. number	000001 to 999999

COM_End	Finishes the communication with a dosimeter.		
Write	Write the data displayed on the screen to the dosimeter by USB		
	communication.		
Menu	Back to the Main Menu screen: Fig. 4-1		
Read again*	Re-starts communication with a dosimeter. If it starts communication by		
	establishing transmission, it processes data read out automatically.		
	*: This is indicated while communication is not established.		

# 4.12 Alarm Settings (Dose/Dose rate)

💂 DOSE-i Series-Alarm Settings (Dos	e/Dose rate)		<u>_   ×</u>
View Client Control No.	121845		03/23/2015 11:34
Setting Hp(10) Dose Alarm	9999999.9 mrem	Setting Name (alphanumeric 8 characters)	Message Processed successfully
Hp(10) Dose Rate Alarm	400 mrem/h		
Hp(10) pre Dose Alarm	30.0 mrem		
Hp(10) pre Dose Rate Alarm	200 mrem/h		COMEnd
			Write

Fig. 4-9 Alarm settings (Dose/Dose rate) Screen

- -- Display the alarm threshold read out from the dosimeter.
- -- Write the edited alarm threshold to the dosimeter by click "Write" button.

#### <View>

Name	Definition, range and unit of the functions	
Client Control No.	Dosimeter ID. number000001 to 999999	

# <Setting>

Name	Definition, range and unit of the functions			
Hp(10) Dose Alarm	Hp(10) integrated dose alarm 0.1 to 9	99999.9 mSv		
	threshold			
Hp(10) Dose Rate Alarm	Hp(10) dose rate alarm threshold 1 to 99	9999 mSv/ h		
Hp(10) Pre Dose Alarm	Hp(10) integrated dose pre alarm 0.1 to 9	99999.9 mSv		
	threshold			
Hp(10) Pre Dose Rate	Hp(10) dose rate pre alarm 1 to 99	9999 mSv/ h		
Alarm	threshold			
Name	User name 8 alphanu	8 alphanumeric characters		
		capital)		
	Note) Indicate	s up to 8 characters		
	on dosimeter's	s display.		

COM_End	Finishes the communication with a dosimeter.	
Write	Write the data displayed on the screen to the dosimeter by USB	
	communication.	
Menu	Back to the Main Menu screen: Fig. 4-1	
Read again*	Re-starts communication with a dosimeter. If it starts communication by	
	establishing transmission, it processes data read out automatically.	
	*: This is indicated while communication is not established.	

# 4.13 Counts Readout

💂 DOSE-i Series-Counts Readout	
	03/23/2015 10.03
	Transmission
View-	Message
Client Control No.	Processed successfully
Count Data View	
-Hp(10)	
Low 1281 Count	
Midd. Count	
High Count	
	COMEnd
	Kead Menu

Fig. 4-10 Counts Readout Screen

-- Display the count values read out from the dosimeter.

#### <View>

Name	Definition, range and unit of the functions	
Client Control No.	Dosimeter ID. number	000001 to 999999
Hp(10)Low	Count of Hp(10)Low	000000 to 999999 count
Hp(10)Mid	Count of Hp(10)Mid	000000 to 999999 count
Hp(10)High	Count of Hp(10)High	000000 to 999999 count

COM_End	Finishes the communication with a dosimeter.	
Read	Starts reading out for data display. This will be executed from initializing	
	the already established communication even during transmission.	
Menu	Back to the Main Menu screen: Fig. 4-1	
Read again*	Re-starts communication with a dosimeter. If it starts communication by	
	establishing transmission, it processes data read out automatically.	
	*: This is indicated while communication is not established.	

# 4.14 Maintenance Settings

DOSE-i Series-Maintenanc	e settin	gs		
				03/23/2015 10:04
				Transmission
View Client Control No			121845	Message
Software version		L		successfully
2.14,2014/01/14 rer	n			
Setting items	04	Lu		
Buzzer Volume		Hi		
Backlight Setting	02	30sec	<b>•</b>	
Power On Reset	00	OFF	•	
Brightness Control	01	Dark	<b>•</b>	
Operation Time Alarm	00	OFF	•	
Configuration Mode	00	ON	•	
				Kead again
				Write
				Menu

Fig. 4-11 Maintenance Settings Screen

-- Display the maintenance settings data read out from the dosimeter.

-- Write the edited setting data to the dosimeter by click "Write" button.

<View>

Name	Definition, range and unit of the functions	
Client Control No.	Dosimeter ID. number	000001 to 999999
Software version Software version of dosimeter		N/A

# <Setting>

Name	Definition, range and unit of the functions		
Buzzer Volume	Volume of dosimeter buzzer	Hi/Mid/Low/OFF	
Backlight Setting	Backlight duration	Continuity/10sec/30sec/60sec	
Power On Reset	Dosimeter action at powered on	ON/OFF	
		Reset/Not reset	
Brightness Control	Brightness of display	Bark/Middle/Bright	
Operation Time Alarm	ON/OFF of alarm mode by	ON/OFF	
	operation time		
Configuration Mode	ON/OFF of setting on dosimeter	ON/OFF	
	display		

Read again	Orders to restart a communication (and readout of data) with dosimeter.
Write	Write the data displayed on the screen to the dosimeter by USB
	communication.
Menu	Back to the Main Menu screen: Fig. 4-1
Read again*	Re-starts communication with a dosimeter. If it starts communication by
	establishing transmission, it processes data read out automatically.
	*: This is indicated while communication is not established.

# 5. Troubleshooting

## 5.1 Errors and Solutions

(1) Communication Error

Communication error between a computer and a Dosimeter Setting Device.

- During computer start up, processing, or data communication:

Error	Suggested Solution
<establishing communication=""></establishing>	Check the cable connection.
Reading unit, or cable abnormal	
<status process=""></status>	Check the cable connection.
No response	

- During data readout from a dosimeter:

Error	Suggested Solution
<reading (trend="" acquisition)="" data="" process=""></reading>	Retry reading out.
Dosimeter Not Communicating	
<reading (trend="" acquisition)="" data="" process=""></reading>	Retry reading out.
Dosimeter communication error	
<reading (trend="" acquisition)="" data="" process=""></reading>	Check the IR Communication Device.
No response	Check the connection with USB cable.
<trend data="" process="" reading=""></trend>	No Trend data. Create Trend data first, and then
Trend data does not exist	read out.

-During writing configurations to the dosimeter.

Error	Suggested Solution	
<writing process=""></writing>	Process reading out, first	
Dosimeter Not Communicating		
<writing process=""></writing>	Process reading out, first	
Dosimeter communication error		
<writing process=""></writing>	Process reading out, first.	
No response	Check the cable connection.	

 $\star$  Please restart PC if the errors not listed in this section occurred.

(2) Internal Error:

-Errors detected by an internal check.

#### - At starting of writing / Occurrence of abnormality on configuration range:

Error	Suggested Solution
Input Error of xxxx	Re-enter the value within the valid range.

(3) Error during at communication start:

-Errors detected by a computer internal check when attempted to write, or to readout trend data.

#### -When attempting writing process.

Error	Suggested Solution
Dosemieter Not Communicating	Start reading process, first.
Cannot write.	

#### - Error when attempted to reading out trend data:

Error	Suggested Solution
Dosemieter Not Communicating	Cancel the trend data readout, and then start regular
	reading process.

★ Please restart PC if the errors not listed in this Instruction Manual occurred.

# 6. Abnormalities

Problem	Solution
Cannot establish	May not connected properly.
communication.	Check the cable connection.
	Please contact Fuji Electric if experiencing frequent transmission errors.

# 7. Maintenance

Check the Dosimeter Setting Device as specified below to ensure its performance.

To be checked:	Procedure
External	Visual check for any foreign objects such as dirt or dust balls.
Appearance	Check every six months, or every time a transmission error occurs.
	Check point; Inside of USB port.
Cable connection	Check any looseness on connection of cables.
	Check every six months, or every time a transmission error occurs.
	Check point; Cables
Infrared	Put close dosimeter to the IR Head and check the transmission.
communication	Check every six months, or every time a transmission error occurs.