

User's manual

Setting Device for NRF50

Introduction

This User's Manual is organized to provide a brief description of setting device for electronic personal dosimeter NRF50. If there are some requirements or improvements about this setting device, please contact Fuji Electric representative.

Also, in the event of any malfunctions or other problems, contact Fuji Electric representative immediately.

	Do not use, if smoke, unusual odor or abnormal noise exists.	
	Do not plug into the outlet that is not designated.	
4	Do not use power cable other than provided.	
	Do not disassemble, repair or alter the Dosimeter Setting Device.	
Attention		
\bigcirc	Use dosimeter with power ON.	
	May lose data if power turned OFF.	

Safety Precaution

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Contents

1. Overview

1.1 Overview

This setting device consists of hardware and software. It has a function of data communication to dosimeter (Model: NRF50) by infrared or USB to read set value and dose information from dosimeter, and a function of writing set value changed on the PC display. Trend data read from dosimeter can be exported as a plain text.

This software is designed to correspond with Microsoft® Windows® operating system.

1.2 Sample unit package

(1)	Configuration software installation CD	1
(2)	User's manual	1
(3)	Infrared (IR) setting device	1
(4)	USB cable	1

2. Specification

2.1 Basic specification

Basic function :

- 1. Read set value and dose information from dosimeter
- 2. Write set value into dosimeter
- 3. Display a table of trend data

Peer : Electronic Personal Dosimeter (NRF50)

Temperatures	:	0	to	40 °C
Humidity	:	30	to	85 %RH

2.2 Required environment

The following hardware and software are required.

(1) Hardware

One set of PC/AT compatible platform and peripheral (hereinafter, PC) that meet the following specifications

• CPU	:	Pentium 1GHz, or greater
Memory	:	1G Byte, or greater
Hard Drive	:	Free disc space of 20 MB, or greater
 Display 	:	Resolution 1024 × 768, or greater
Communications Interface	:	USB× 1 ch
Others	:	Mouse and keyboard

(2) Software

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

Operating system : Windows® 7, 8.1 (32/64bit)

Notes)

- * **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. Device structure

3.1 IR setting device

Structure of IR setting device is shown below



Parts	Description
USB connector	Connect to USB port of PC
IR head	Powered from USB port of PC. Other power supply is
	not necessary.

3.2 USB cable

Structure of USB is as shown below



4 . Descriptions and setting-ups

4.1 System configuration

This software is used in the following configuration. Configurations for IR connection and USB connection are common.



* IR reception is located at lower left on the back of dosimeter.



* While connecting USB, IR device does not work.

Fig. 4-1 System configuration

4.2 Configuration software

Functions overview of setting software is shown below:



EPD settings	See 5.4 EPD settings
Alarm settings	See 5.5 Alarm settings
Calibration	See 5.6 Calibration
Maintenance settings	See 5.7 Maintenance settings
Read out EPD data	See 5.8 Read out EPD data
EPD No.	See 5.9 EPD No.
Read out trend data	See 5.10 Read out trend data
Reset EPD data	See 5.11 Reset EPD data

4.3 Setting up

Setup the hardware first, then the software.

[IR setting device driver setups]

Installer is automatically launched, when CD attached in IR setting device (ACT-IR224UN-LN96-LE) is inserted. If not launched automatically, perform the following file. driver¥ACT-IR224UN-DriverInstaller_v1210-20100408.exe

[USB driver setups]

Install by downloading CP210x USB to UART Bridge VCP Drivers from the following URL. http://www.silabs.com/products/mcu/Pages/USBtoUARTBridgeVCPDrivers.aspx

[Software setups]

- (1) Insert the setting software installation CD in the CD-ROM drive on PC.
- (2) Launch "Setup.exe" file.
- (3) Install according to the instructions.

5. Operational instruction

- 5.1 Start the configuration software
 - (1) Double-click the icon



Fig. 5-1 Icon of configuration software

(2) Configuration software is launched, then, the startup window will be indicated.

R NRF50			×	
N	RF50 Config	guration s	Softwar	e
COM Por	t		Ver.	1.04
COM3 S	licon Labs	CP210x L	JSB to L	JART E -
🔽 Plug a	and Play De	vices		
Enter S	etting Device	No. No.	01	
		Exit		Start

Fig. 5- 2 Startup window

Attention	For IR(USB) COM port number, serial port number is assigned following serial port number on your PC (COM1,COM2) (e.g. : from COM3)
-----------	--

(3) Click [Start] button. Menu display appears.

* If wishing to finish, click [Exit] button, then Confirmation display appears to finish the program.



Fig. 5- 3 Confirmation display for finishing program



5.2 Screen interface

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



Fig. 5- 4 Common messages and layout of menu window

These messages are indicated in the Message box. Message severity is as follows;

Severity	Messages	Descriptions
1	LOW Battery	Dosimeter's battery power is critically low.
2	Please put EPD correctly	Communication with dosimeter has not been
		established.
3	Processed Successfully	Communication between setting device and
		dosimeter has been established.
4	Initializing	In the process of establishing communication
		between setting device and dosimeter.

* Features on the menu will function only when dosimeter is in communication. If communication status sign is **Red blincking**, put EPD correctly, and then click **[Read again]** button to start/resume Data communication and confirm communication sign is **Blue**.

5.3 Main menu

ía.	NRF50 Configuration Main Menu	- • ×
		06/12/2015 14:57
		Now communicating
EPD settings	Read out EPD data	Message Processed successfully
Alarm settings	EPD No.	
Calibration	Read out trend data	
Maintenance settings	Reset EPD data	
		Disconnect
		Exit

Fig. 5- 5 Main menu window

- All functions performed via data communication with dosimeter are listed.
- Select one function to go to window of the function selected.

<Menu button>

EPD settings	Go to the next window : Fig.5-6
Alarm settings	Go to the next window : Fig.5-7
Calibration	Go to the next window : Fig.5-8
Maintenance settings	Go to the next window : Fig.5-9
Read out EPD data	Go to the next window : Fig.5-10
EPD No.	Go to the next window : Fig.5-11
Read out trend data	Go to the next window : Fig.5-12
Reset EPD data	Go to the next window : Fig.5-15

Read again (*)	Re-start communication with a dosimeter. If it starts communication by
	establishing connection, it processes data read out automatically.
	(*)This is indicated while communication is not established.
Disconnect	Finish the communication with dosimeter.
	After disconnect, "Read again" button is indicated.
Exit	Close the current window.

5.4 EPD settings

2	EPD settings – 🗆 🗙
Display item EPD No. 123456	06/12/2015 14:59 Now communicating
Setting items	Message Processed successfully
Time Alarm 9 hr 30 min	
Interval of telemetry data	
10sec 💌	
Operating time display setting	
Count down 💌	
Monitoring Beep Step 0.1 mrem	
Interval of trend data	
	Disconnect
	Write

Fig. 5- 6 EPD settings window

- Configuration read out from dosimeter is displayed.
- Data can be changed and writing to dosimeter can be processed (value can be updated).

<Display item>

Item	Definition / Range and unit of functions	
EPD No.	Dosimeter Number	000001 to 999999

<Setting items>

Items	Definition / Range and unit of functions	
Time Alarm	Alarm wetting of operating time	1 min to 99 hour 59 min
Interval of telemetry	Telemetry data transmission	2 sec / 4 sec / 10 sec /
data	interval of telemetry	30 sec / 1 min
Operating time display	Display setting of operating time	Count down / Count up
setting		
Monitoring Beep Step	Beep activating intervals	OFF / 0.01 mrem / 0.02 mrem
		/ 0.1 mrem / 1 mrem /
		10 mrem
Interval of trend data	Trend data record interval	10 sec / 30 sec / 1 min / 5 min
		/ 10 min / 30 min / 60 min /
		90 min / 24 hour

Read again (*)	Re-start communication with a dosimeter. If it starts communication by	
	establishing connection, it processes data read out automatically.	
	(*)This is indicated while communication is not established.	
Write	Write to the communicating dosimeter so that data currently indicated is	
	updated.	
Disconnect	Finish the communication with dosimeter.	
	After disconnect, "Read again" button is indicated.	
Menu	Go back to Menu window: Fig.5-5	

5.5 Alarm settings

í.	Alarm settings	_ ×
Display item EPD No.	123456	06/12/2015 15:00 Now communicating
Setting items Accumulated dose alarm	100.0 mrem	Message Processed successfully
Dose rate alarm	10.0 mrem/h	etting items
Accumulated dose warning	50.0 mrem	Memo (alphanumeric 32 characters)
Dose rate warning	5.0 mrem/h	Disconnect
		Menu



- Accumulated dose alarm threshold (alarm, warning(pre alarm)) and dose rate alarm threshold (alarm, warning(pre alarm)) that are readout from dosimeter, and name and memo are indicated.
- Writing to dosimeter (update) can be performed by entering accumulated dose alarm threshold, dose rate alarm threshold, name and memo.

<Display item>

.

Item	Definition / Range and unit of functions	
EPD No.	Dosimeter Number	000001 to 999999

<Setting items>

Items	Definition / Range and unit of functions	
Accumulated dose alarm	0.0 to 999999.9 mrem	
threshold		
Dose rate alarm threshold	0.0 to 999999.9 mrem/h	
Accumulated dose warning	0.0 to 999999.9 mrem	
(pre alarm) threshold		
Dose rate warning	0.0 to 999999.9 mrem/h	
(pre alarm) threshold		
Name	NNNNNNNNN (10 capital alphabetical characters)	
Memo	32 alphanumeric characters	

Read again (*)	Re-start communication with a dosimeter. If it starts communication by		
	establishing connection, it processes data read out automatically.		
	(*)This is indicated while communication is not established.		
Write	Write to the communicating dosimeter so that data currently indicated is		
	updated.		
Disconnect	Finish the communication with dosimeter.		
	After disconnect, "Read again" button is indicated.		
Menu	Go back to Menu window: Fig. 5-5		

5.6 Calibration

ία.	Calibration	- 🗆 🗙
Display items EPD No. 123456 Calibration factor 100 x Accumulated dose	Setting item Calibration factor 100 % Min 50 - Max 150 (step: 1)	06/12/2015 15:01 Now communicating Message Processed successfully
Calibration due date (CAL DU 01/01/2099 → Ju 31 1 2 7 8 9 14 15 16 21 22 23 28 29 30 5 6 7 → Today:	ne 2015 J 3 4 5 6 10 11 12 13 17 18 19 20 24 25 26 27 1 2 3 4 8 9 10 11 6/12/2015	Disconnect
		Write Menu

Fig. 5-8 Calibration window

- Preview accumulated dose and calibration factor read out from a dosimeter.
- Write the calibration factor to the dosimeter directly.

<Display items>

Items	Definition / Range and unit of functions	
EPD No.	Dosimeter Number 000001 to 999999	
Calibration factor	Calibration factor read out from a	50 to 150 %
	dosimeter	
Accumulated dose	Accumulated dose of Hp(10)	0.0 to 999999.9 mrem

<Setting item>

Item	Definition / Range and unit of functions	
Calibration factor	Calibration factor for Hp(10)	50 to 150 %
		(Step : 1)

<Calibration due date>

Item	Definition / Range and unit of functions	
Calibration due date	Setting of calibration due date by	MM/DD/YYYY
	selecting the date from calendar.	

Read again (*)	Re-start communication with a dosimeter. If it starts communication by		
	establishing connection, it processes data read out automatically.		
	(*)This is indicated while communication is not established.		
Write	Write to the communicating dosimeter so that data currently indicated is		
	updated.		
Disconnect	Finish the communication with dosimeter.		
	After disconnect, "Read again" button is indicated.		
Menu	Go back to Menu window: Fig. 5-5		

5.7 Maintenance settings

îż.	1	Maintenance settings	- 🗆 🗙
Display items EPD No. Software version	123456 1.08E	Battery Voltage 1485 0~9999(mV) EPD internal temperature +029 -60~+125 (deg C)	06/12/2015 16:15 Now communicating Message Processed successfully
Setting items			
Date Setting Backlight lighting tim Vibration Power On Reset Display contrast Time Alarm ON/OFF Basic display Telemetry ON/OFF Telemetry type USB telemetry ON/	MM/DD/YY 3sec ON Reset Mid ON Accumulated dose OFF Type1 OFF OFF OFF OFF OFF	Display selection ✓ Bit0: EPD No. □ Bit1: ID No. □ Bit2: RWP No. ✓ Bit3: Accumulated dose alarm ✓ Bit4: Accumulated dose warm ✓ Bit5: Dose rate alarm (drA) ✓ Bit5: Dose rate warning (drW, □ Bit7: Calibration due date (C,	n (dA) ing (dW)) AL DUE)
Dose rate alarm lato Bluetooth ON/OFF UOM symbol setting	h Enabled OFF • d/dr •	_	Read again Write Menu

Fig. 5- 9 Maintenance settings window

<Display items>

Items	Definition / Range and unit of functions	
EPD No.	Dosimeter Number	000001 to 999999
Software version	Software version number is	* ***
	indicated	
Battery Voltage	Battery voltage is indicated	0 to 9999 (mV)
EPD internal	Inside temperature of dosimeter is	-60 to +125 (deg C)
temperature	indicated	

<Setting items>

Items	Definition / Range and unit of functions	
Date Setting	Setting of date indication YY/MM/DD / DD/MM/YY /	
		MM/DD/YY
Backlight lighting time	Set a lighting time of backlight	3sec / 10sec / 30sec / 60sec /
	Backlight is turned on by operating	Continuity
	a button	
	If button operation is not	
	performed for a preset time, it	
	turns off automatically	
Vibration	Set ON/OFF for vibrator function	OFF / ON
Power On Reset	Reset of EPD data such as	Reset / Continuity
	accumulated dose, when Power	
	On	
Display contrast	Set a contrast of display	Low / Mid / Hi
Time Alarm ON/OFF	Set ON/OFF of time alarm	OFF / ON
Basic display	Set a display during Power On	Accumulated dose
		dose rate
Telemetry ON/OFF	Set ON/OFF for telemetry	OFF / ON
	communication	
Telemetry type	Set a data format for telemetry	Type1 (48byte) / Type2
	communication	(29byte) / Type3 (64byte)
USB telemetry ON/OFF	Set ON/OFF for telemetry via USB	OFF / ON
	communication	
Dose rate alarm latch	Alarming is continued for 10	OFF / ON
	seconds after cancellation of dose	
	alarm	
Bluetooth ON/OFF	Set ON/OFF for telemetry via	OFF / ON
	Bluetooth communication	
UOM symbol setting	Setting of unit of measurement	D/DR / d/dr
	symbol	
Display selection	Display selection of each number	Check:Show, Blank:Hide
	indicating display	

Read again (*)	Re-start communication with a dosimeter. If it starts communication by	
	establishing connection, it processes data read out automatically.	
	(*)This is indicated while communication is not established.	
Write	Write to the communicating dosimeter so that data currently indicated is	
	updated.	
Disconnect	Finish the communication with dosimeter.	
	After disconnect, "Read again" button is indicated.	
Menu	Go back to Menu window: Fig. 5-5	

5.8 Read out EPD data

Lead out EPD data	– O X
Display items Current accumulated dose 0.000 mrem	06/12/2015 15:02
Current operating time0 hr01 minNumber of trend data1110Error Flag00Total accumulated dose0.0 mremTotal operating time4 hr01 min	Message Processed successfully
Display item EPD No 123456	Disconnect Read Menu

Fig. 5- 10 Read out EPD data window

Measurement data read out from dosimeter is indicated.

<displa< th=""><th>y items></th></displa<>	y items>
---	----------

•

Items	Definition / Range and unit of functions	
EPD No.	Dosimeter Number	000001 to 999999
Current Accumulated	Accumulated dose of Hp(10)	0.000 to 9999999.999 mrem
dose		
Operating time	Operation time of the dosimeter	0hr 00min to 99hr 59min
Number of Trend data	Number of trend data currently	0 to 4000
	stored	

Items	Definition / Range and unit of functions		
Error Flag	Occurrence status of error	bit0: LOW Battery	
	This is indicated in Exist:1 Not	bit1: Calibration due expiration	
	exist:0 for each bit	bit2: Memory failure	
	bit is indicated in hex	bit3: Abnormal inner	
		temperature	
		bit4: RTC failure	
		bit5: Communication error	
		bit6: Detector failure	
		bit7:0 (reserved)	
Total accumulated dose	Accumulated dose after previous	0.0 to 9999999.9 mrem	
	Reset		
Total operation time	Accumulated operation time after	0hr 00min to 999999hr 59min	
	previous Reset		

Read again (*)	Re-start communication with a dosimeter. If it starts communication by
	establishing connection, it processes data read out automatically.
	(*)This is indicated while communication is not established.
Disconnect	Finish the communication with dosimeter.
	After disconnect, "Read again" button is indicated.
Menu	Go back to Menu window: Fig. 5-5

5.9 EPD No.

6a	EPD No.	- • ×
Display item EPD No. 123456	Setting item EPD No. 123456	06/12/2015 15:02 Now communicating Message Processed successfully
		Disconnect Write Menu

Fig. 5- 11 EPD No. window

<Display item>

Item	Definition / Range and unit of functions		
EPD No.	Dosimeter Number 000001 to 999999		

<Setting item>

Item	Definition / Range and unit of functions	
EPD No.	Dosimeter Number 000001 to 999999	

Read again (*)	Re-start communication with a dosimeter. If it starts communication by		
	establishing connection, it processes data read out automatically.		
	(*)This is indicated while communication is not established.		
Write	Write to the communicating dosimeter so that data currently indicated is		
	updated.		
Disconnect	Finish the communication with dosimeter.		
	After disconnect, "Read again" button is indicated.		
Menu	Go back to Menu window: Fig. 5-5		

5.10 Read out trend data

fr.	Read out tr	end data	_ 0 ×
Display ite	ems L	Trend data ta	able
Display items EPD No. 123456 Number of trend data 1111 Interval of trend data 1min	Display items Accumulated dose 0.000 m Operating time 0 hr 02	min	06/12/2015 15:03 Message Processed successfully
Reset trend data		Disconnect	Read next Menu

Fig. 5- 12 Read out trend data (display items) window

Trend data (display items) read out from dosimeter is indicated.

Items	Definition / Range and unit of functions		
EPD No.	Dosimeter Number	EPD No.	
Number of trend data	Number of trend data currently	0 to 4000	
	stored		
Interval of trend data	Trend data record interval	10 sec / 30 sec / 1 min / 5 mi	
		/ 10 min / 30 min / 60 min /	
		90 min / 24 hour	
Accumulated dose	Accumulated dose of Hp(10)	0.000 to 999999.999 mrem	
Operating time	Operation time of the dosimeter	0hr 00min to 99hr 59min	

<Display items>

•

<Command Button>

Reset trend data	Clear and reset trend data.		
Read again (*)	Re-start communication with a dosimeter. If it starts communication by		
	establishing connection, it processes data read out automatically.		
	(*)This is indicated while communication is not established.		
Read next	Starts reading out again for data display. This will be executed from		
	initializing the already established communication even during		
	transmission.		
Disconnect	Finish the communication with dosimeter.		
	After disconnect, "Read again" button is indicated.		
Menu	Go back to Menu window: Fig. 5-5		



Fig. 5- 13 Error message window

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

5.10.1 Trend data table

ie.			Read out trend data		×
	Display	' items		Trend data table	
No.	Date and time	Restart flag	Interval of trend data (sec)	Accumulated dose (mrem)	Maximum dose 🔺
1	15/06/12 14:07:03	80	60	0000000.0	0.00
2			60	0000000.0	0.00
3			60	0.000000.0	0.00
4			60	0.0000000	0.00
5	15/06/12 14:12:49	80	60	0.000000.0	0.00
6			60	0.0000000	0.00
7	15/06/12 14:15:49	80	60	0.0000000	0.00
8			60	0.000000.0	0.00
9			60	0.000000.0	0.00
10			60	0.0000000	0.00
11			60	0.000000.0	0.00
12			60	0.000000.0	0.00
13			60	0.0000000	0.00
14			60	0.0000000	0.00
15			60	0.000000.0	0.00
16			60	0.000000.0	0.00
17			60	0.0000000	0.00
18			60	0.000000.0	0.00
19			60	0.000000.0	0.00
20			60	0.0000000	0.00
21			60	0.0000000	0.00
22	15/06/12 14:30:49	00	60	0.0000000	0.00
↓ ^	1		0	0000000	
Rea	d out trend data				Save
Reset	t trend data		Disconnect	Read ne	ext Menu

Fig. 5- 14 Read out trend data (trend data table) window

Preview the trend data read out from the dosimeter.

<Display items>

.

Items	Definition / Range and unit of functions		
No.	Trend data No.	1 to 4000	
Date and time	Time of trend data acquisition	YY/MM/DD HH:MM:SS	
	added per max. of 15 data		
Restart flag	Continue or Restart	00 : Continue	
		80 : Restart	
Interval of trend data	Trend data record interval	10 / 30 / 60 / 300 / 600 / 1800 /	
(sec)		3600 / 5400 / 86400	
Accumulated dose	Accumulated dose of Hp(10)	0.0 to 999999.9	
(mrem)			

Items	Definition / Range and unit of functions		
Maximum dose rate	Maximum dose rate in the	0.00E0 to 9.99E6	
(mrem/h)	interval of trend data		
Error Flag	Occurrence status of error	bit0: LOW Battery	
	This is indicated in exist:1 not	bit1: Calibration due expiration	
	exist:0 for each bit	bit2: Memory failure	
	8bit is indicated in hex	bit3: Abnormal inner temperature	
		bit4: RTC failure	
		bit5: Communication error	
		bit6: Detector failure	
		bit7:0 (reserved)	
Alarm Flag	Occurrence status of error	bit0: Time alarm	
	This is indicated in exist:1 not	bit1: Emergency alarm	
	exist:0 for each bit	bit2: Accumulated dose overload	
	8bit is indicated in hex.	bit3: Dose rate overload	
		bit4: Accumulated dose alarm	
		bit5: Dose rate alarm	
		bit6: Accumulated dose warning	
		bit7: Dose rate warning	

Read out trend	All stored trend data is read out.
data	
Save	Stored trend data is all stored in a file.
Reset trend data	Clear and reset trend data.
Read again (*)	Re-start communication with a dosimeter. If it starts communication by
	establishing connection, it processes data read out automatically.
	(*)This is indicated while communication is not established.
Read next	Starts reading out again for data display. This will be executed from
	initializing the already established communication even during
	transmission.
Disconnect	Finish the communication with dosimeter.
	After disconnect, "Read again" button is indicated.
Menu	Go back to Menu window: Fig. 5-5

5.11 Reset EPD data

8		Reset EPD data		- 🗆 🗙
	g items Total operating time Total accumulated dose Current operating time Current accumulated dose Reset	4 hr 04 min 0.0 rem 0 hr 04 min 0.000 mrem	06/12/20 Now of Message Processe successfu	15 15:05 communicating d ully
		Reset all data		Discourse
EPD 1	ritem No <u>123456</u>		Write	Menu

Fig. 5- 15 Reset EPD data window

<Display item>

Item	Definition / Range and unit of functions		
EPD No.	Dosimeter Number	000001 to 999999	

Read again (*)	Re-start communication with a dosimeter. If it starts				
	communication by establishing connection, it processes data				
	read out automatically.				
	(*)This is indicated while communication is not established.				
Total operating time	Total operation time. Added to Reset data by double-clicking a				
	corresponding white box.				
Total accumulated dose	Total accumulated dose. Added to Reset data by double-clicking				
	a corresponding white box.				
Reset	Reset current operating time and accumulated dose data.				
- Current operating time					
- Current accumulated					
dose					
Reset all data	All data is added to Reset data.				
Write	Reset of selected data is performed.				
Disconnect	Finish the communication with dosimeter.				
	After disconnect, "Read again" button is indicated.				
Menu	Go back to Menu window: Fig. 5-5				

6. Troubleshooting

Response to message on pop up window

(1) Communication error

Indicates communication error between a computer and a Dosimeter Setting Device.

 During computer start up, processing, or error occurrence between a computer and a Dosimeter Setting Device

Error	Suggested Solution		
<establishing communication=""></establishing>	Check the cable connection.		
Error message	Check the position of dosimeter and setting device.		
<status process=""></status>	Check the cable connection.		
No response	Check the position of dosimeter and setting device.		

For communication error during data readout from dosimeter

Error	Suggested Solution
<reading process=""></reading>	Retry reading out.
Error message	
<reading process=""></reading>	Check the connection with cable.
No response	
<reading process=""></reading>	No Trend data.
Trend not exist.	Create Trend data first, and then read out.
Cannot read.	

• For communication error during writing configurations to the dosimeter

Error	Suggested Solution
<writing process=""></writing>	Process reading out, first.
Error message	Check the cable connection.
	Check the position of dosimeter and setting device.
<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

Error detected inside a computer is indicated.

• At starting of writing / Occurrence of abnormality on configuration range:

Error	Suggested Solution
Input error of **** value.	Value of **** within the invalid range.
Re-enter the correct value.	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
No response	Start reading process, first.

• Error when attempted to reading out trend data

Error	Suggested Solution		
No response	Cancel the trend data readout, then start regular		
	reading process.		

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

7 . Abnormalities and response to alarms

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

8. Maintenance

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

To be checked:	Procedures
Infrared	Put close dosimeter to the IR Head and check the communication.
communication	Check every six months, or every time a communication error occurs.
USB	Connect USB cable to dosimeter and check the communication.
communication	Check every six months, or every time a communication error occurs



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Dear customers,

Any comments/ requests/ suggestions regarding our instruction manual? Please feel free to contact us by filling out this form and give to our sales representative.

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