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PGAA-00036 REV A 2023-11

## Before use

- This product only makes use of personal information which the user has agreed to allow to be collected.
- Contact the manufacturer or visit the website for details of this product.
- References**
  - All standards and regulations mentioned are in effect as of the date this manual was issued.
  - Some features described in this manual may not be available in some countries.
  - Please consult the local representative for region-specific information.
  - The screenshots and illustrations in this manual are provided for explanatory purposes. They may differ from the actual appearance.

## Document conventions

This manual uses the following notational conventions to aid in understanding its content.

Notational conventions	Description
<b>Boldface</b>	Boldface is used to display elements of the graphic user interface, including menus and directions.
" "	Single quotation marks are used to indicate pages, portals, and screens from the graphical user interface.
<b>'Cross-references'</b>	'Cross references' are used to refer to different sections of this document.
<b>Visual aids</b>	Visual aids in the form of graphics, illustrations, or screen captures are used to help the reader understand the text.
<b>Tables</b>	Tables are used to present large amounts of data in an easy-to-read format.

## 01 Understanding the CareSens Air Receiver

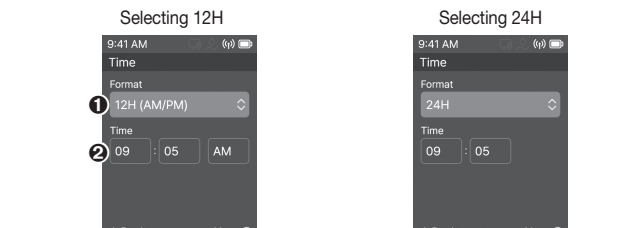
### Intended Use

The CareSens Air Continuous Glucose Monitoring (CGM) System is indicated for continuous monitoring of blood glucose levels via measurement of glucose in the interstitial fluid in patients with diabetes mellitus aged 18 years and older. CareSens Air CGM System enables blood glucose monitoring through either a smartphone app or a CareSens Air Receiver. The CareSens Air Receiver receives blood glucose readings from the sensor and displays them on the screen. CareSens Air Receiver helps to detect trends such as hyperglycaemia and hypoglycaemia by providing continuous blood glucose information, to manage changes in blood glucose levels through trend detection and pattern tracking, and to assist in diagnosis and treatment when consulting with medical staff. CareSens Air Receiver results should not be used to diagnose diabetes nor provide any medical decisions. CareSens Air Receiver is intended for use by patients at home and in healthcare facilities.

### Significance of use

- The CareSens Air Receiver can be used in the following cases when the user app cannot be used or to respond to a certain use scenario.
- When using a smart device that does not support the user app.
  - When using in special cases, such as temporary use within a hospital or medical facility.
  - When using in an environment where smart device use is difficult, such as during a national examination.

### Time settings



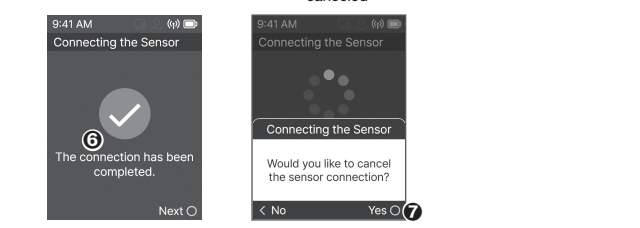
Index	Description
1	Selecting the Format
2	Time settings

### Unit settings



Index	Description
1	Unit setting options

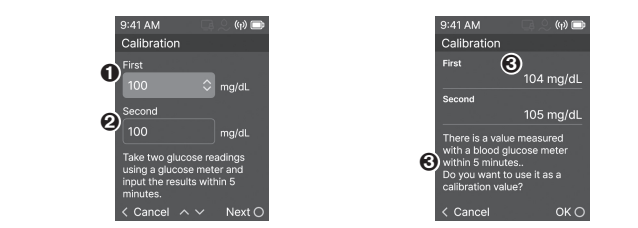
### Connection complete



Index	Description
1	Guide image
2	Guide message
3	Connecting status
4	Remaining time
5	Help key guide
6	Connection complete

- When the connection is cancelled
- First connection: Move to "First alert settings"
  - Set an alert and move to the no sensor connection status
  - Existing usage (2 types): Move to Home (no sensor connection status)
    - If started at Home
    - If started at Menu -> Move to Home

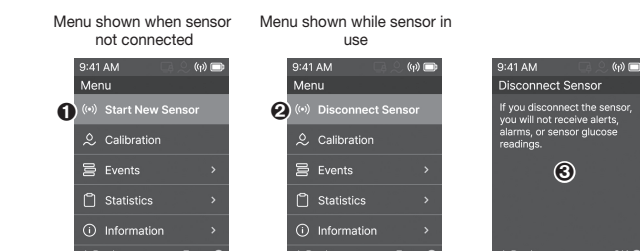
### Initial calibration



Index	Description
1	Enter first calibration value <ul style="list-style-type: none"> <li>Present number 100 mg/dL</li> <li>Set so it appears as a blank space before input, and the number starts from 100 when number is selected</li> </ul>
2	Enter second calibration value
3	Check input value
4	Confirmation message after input is complete

Index	Description
1	Back key guide
2	Up/down key guide
3	O key guide

### Sensor start/end



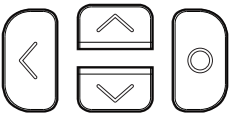
Index	Description
1	New sensor connection menu <ul style="list-style-type: none"> <li>When selected - Move to PO-04-03 sensor information input screen</li> </ul>

## Product components

### CareSens Air Receiver



### Button configuration



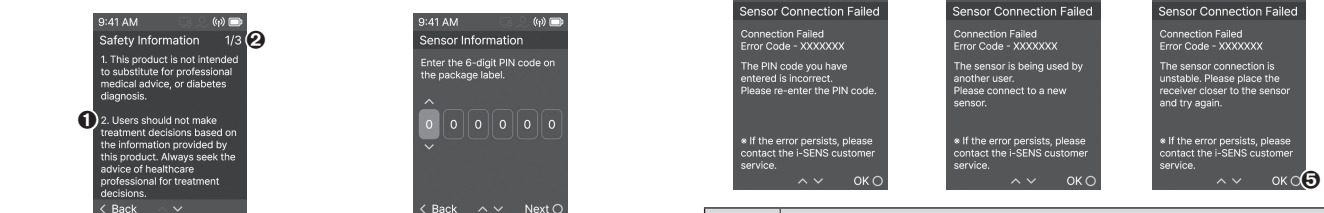
Button	Description
	Select, To next input value, Cancel power saving mode, Power On
	To previous input value (to previous menu), Start power saving mode
	Move menu (up), Change time displayed on graph, Cancel power saving mode
	Move menu (down), Change time displayed on graph, Cancel power saving mode

## Connect to sensor

### Product description

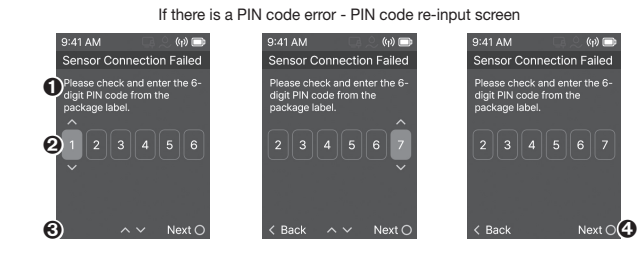


### Safety information



Index	Description
1	Content for Safety information
2	Page

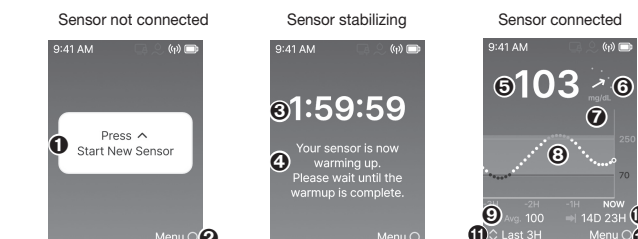
## Re-enter the sensor information



Index	Description
1	An alert guide message for failed sensor connection
2	Information input window <ul style="list-style-type: none"> <li>Show the previously entered PIN number.</li> </ul>
3	Cancel - Move to Home (no sensor connection)
4	OK - Attempt connection
5	OK <ul style="list-style-type: none"> <li>Retused, wrong PIN number -&gt; PIN code input screen</li> <li>Communication problem -&gt; Connection attempt screen</li> </ul>

## 03 Exploring menus

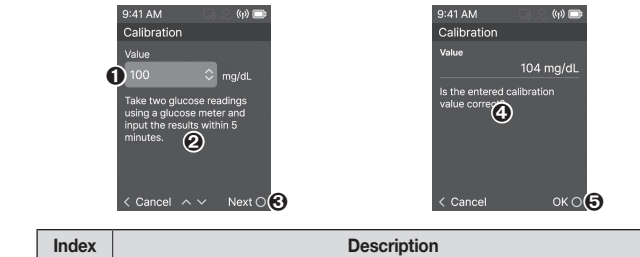
### Understanding the Home screen



Index	Description
1	New sensor connection guide <ul style="list-style-type: none"> <li>O key guide</li> <li>When selected - Move to Menu screen</li> </ul>
2	Time remaining until stabilization
3	Stabilization guide message
4	CGM value
5	Changes in trend arrows
6	Unit
7	CGM chart <ul style="list-style-type: none"> <li>Specifications - See next page</li> </ul>
8	Average blood glucose value during the chart period displayed on the screen
9	Time remaining until expiration of sensor

Index	Description
1	Disconnect sensor in menu <ul style="list-style-type: none"> <li>When selected - Move to Disconnect sensor screen</li> </ul>
2	Sensor disconnection guide message
3	O key guide <ul style="list-style-type: none"> <li>When selected - Show Disconnection confirmation pop-up</li> </ul>
4	O key guide <ul style="list-style-type: none"> <li>When selected - Run Sensor disconnected</li> </ul>

### Calibration



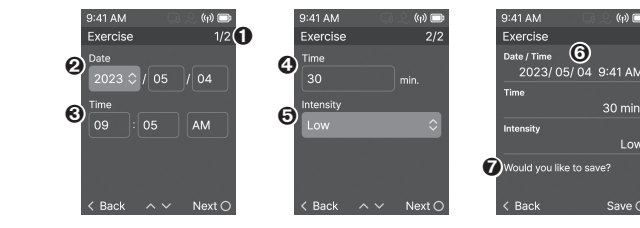
Index	Description
1	Calibration value input field <ul style="list-style-type: none"> <li>Default - Current CGMS value</li> </ul>
2	Calibration value input guide message
3	O key guide <ul style="list-style-type: none"> <li>When selected - Move to input confirmation screen</li> </ul>
4	Check calibration value screen
5	O key guide <ul style="list-style-type: none"> <li>When selected - Calibration value saved</li> </ul>

### Enter ketone



Index	Description
1	Event input page
2	Enter date
3	Enter time
4	Enter ketone value <ul style="list-style-type: none"> <li>Present value 0.0</li> </ul>
5	Check entered information
6	Confirmation message after input is complete

### Enter exercise



Index	Description
1	Event input page
2	Enter date
3	Enter time
4	Enter exercise time
5	Enter exercise intensity
6	Check entered information
7	Confirmation message after input is complete

## Supplementary descriptions and explanations

You can refer to these for information about exceptions and limitations.

- References**
  - This marks helpful information for product use or safety information.

### Precautions

This manual uses the following types of safety messages to alert the user of situations in which they need to take precautions when using the product:

- Warning**
  - This marks a potential danger that could result in serious injury or death if not avoided.
- Caution**
  - This marks a potential danger that could result in minor injury or property damage if not avoided.

## 02 Using the CareSens Air Receiver

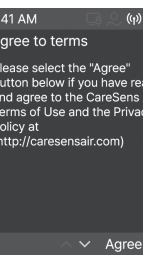
### Turn on CareSens Air Receiver

Press the power button to turn on the CareSens Air Receiver.

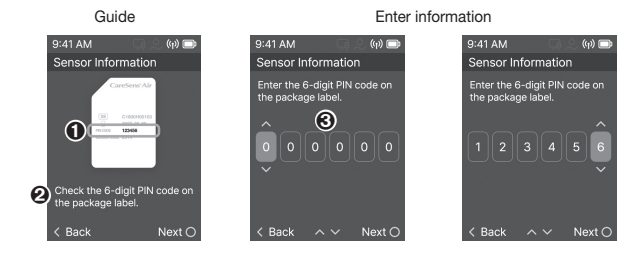


### Agree to Terms

Check the terms of the CareSens Air Receiver click Agree.



### Enter sensor information



Index	Description
1	Guide image
2	Guide message
3	Input window
4	Back <ul style="list-style-type: none"> <li>When selected - Move to information input stage</li> </ul>
5	OK <ul style="list-style-type: none"> <li>When selected - Move to How to use guide</li> </ul>

### Alert settings

#### Blood glucose alert settings



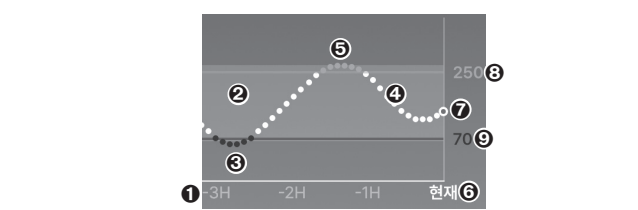
Index	Description
1	Very low alert settings
2	Low alert settings
3	High alert settings
4	Unit
5	Check the settings

### Chart

#### Up/down key guide

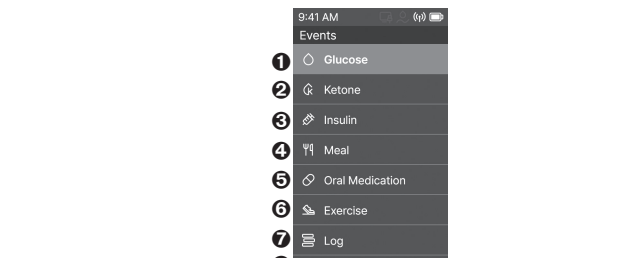
- Chart scale adjustment when selected
- O key guide
  - When selected - Move to Menu screen

### Chart



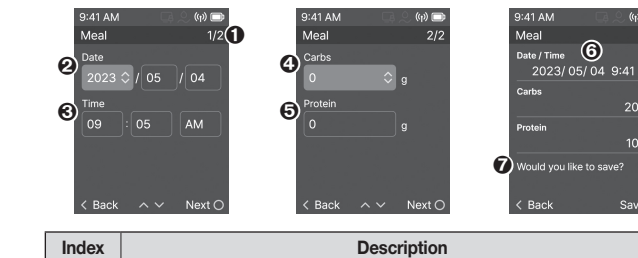
Index	Description
1	Chart X-axis - Time unit (marking policy undecided)
2	Range within the goal
3	Low blood glucose record points - Red
4	Normal blood glucose record points - White
5	High blood glucose record points - Yellow
6	Current status
7	Current blood glucose value <ul style="list-style-type: none"> <li>Dark blue points</li> <li>Normal blood glucose - White outline</li> <li>Low blood glucose - Red outline</li> <li>High blood glucose - Yellow outline</li> </ul>
8	High blood glucose alert standard line, standard value
9	Low blood glucose alert standard line, standard value

### Event



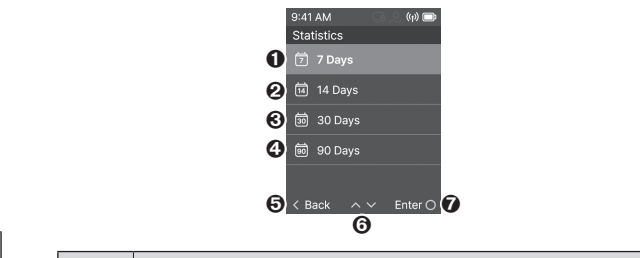
Index	Description
1	Enter blood glucose event <ul style="list-style-type: none"> <li>When selected - Move to Blood glucose event input screen</li> </ul>
2	Enter ketone event <ul style="list-style-type: none"> <li>When selected - Move to Ketone event input screen</li> </ul>
3	Enter insulin event <ul style="list-style-type: none"> <li>When selected - Move to Insulin event input screen</li> </ul>
4	Enter meal event <ul style="list-style-type: none"> <li>When selected - Move to Meal event input screen</li> </ul>
5	Enter oral medication event <ul style="list-style-type: none"> <li>When selected - Move to Oral medication event input screen</li> </ul>
6	Enter exercise event <ul style="list-style-type: none"> <li>When selected - Move to Exercise event input screen</li> </ul>
7	Event log <ul style="list-style-type: none"> <li>When selected - Move to Event log screen</li> </ul>
8	Back key guide
9	Up/down key guide
10	O key guide

### Enter meal



Index	Description
1	Event input page
2	Enter date
3	Enter time
4	Enter amount of carbs consumed <ul style="list-style-type: none"> <li>Unit 5 g</li> </ul>
5	Enter amount of protein consumed <ul style="list-style-type: none"> <li>Unit 5 g</li> </ul>
6	Check entered information
7	Confirmation message after input is complete

### Statistics



Index	Description
1	Statistics of last 7 days <ul style="list-style-type: none"> <li>When selected - Move to Statistics of last 7 days screen</li> </ul>
2	Statistics of last 14 days <ul style="list-style-type: none"> <li>When selected - Move to Statistics of last 14 days screen</li> </ul>
3	Statistics of last 30 days <ul style="list-style-type: none"> <li>When selected - Move to Statistics of last 30 days screen</li> </ul>
4	Statistics of last 90 days <ul style="list-style-type: none"> <li>When selected - Move to Statistics of last 90 days screen</li> </ul>
5	Back key guide
6	Up/down key guide
7	O key guide

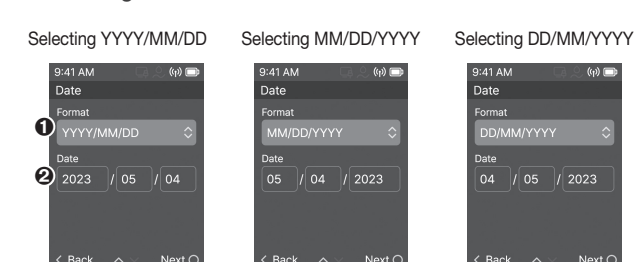
## Definitions of symbols

The following table lists graphical symbols for electrical equipment in medical practice set by the IEC (International Electrotechnical Commission). These symbols not only provide additional information on the product and product use, but also on safety.

Symbol	Description
	Medical device
	Caution
	Please refer to the user manual
	Type BF Applied Part
	Guide for the disposal of electrical or electronic devices
	Temperature limitation
	Humidity limitation
	Dustproof, waterproof grades
	Manufacturer information
	Batch/Lot number
	Date of manufacture

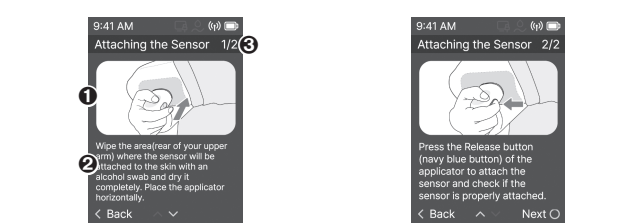
## Initial device settings

### Date settings



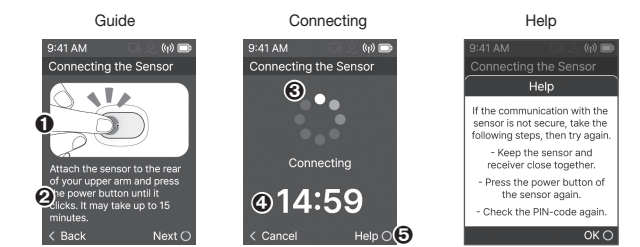
Index	Description
1	Selecting date style
2	Date settings

### How to use guide

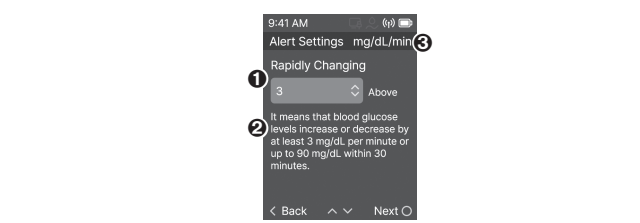


Index	Description
1	Guide image
2	Guide message
3	Page

### Connect to sensor BT

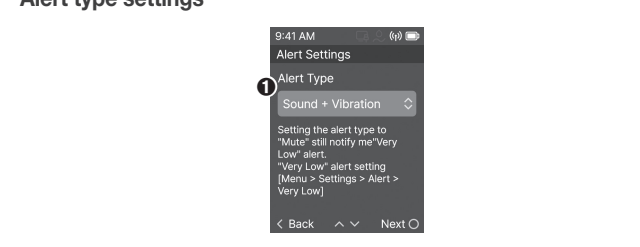


### Rapidly change alert settings



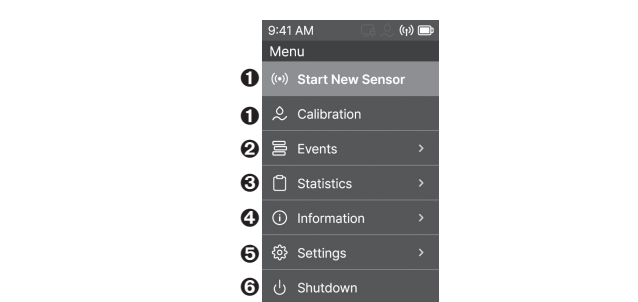
Index	Description
1	Rapidly change alert settings
2	Rapidly change description <ul style="list-style-type: none"> <li>Details vary depending on 2 mg/dL/min or 3 mg/dL/min selection.</li> </ul>
3	Unit

### Alert type settings



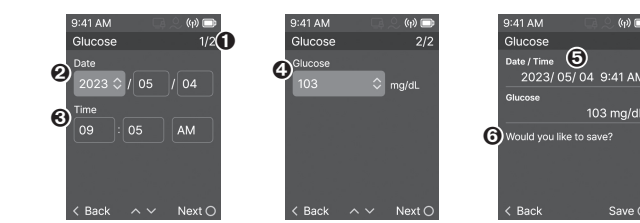
Index	Description
1	Alert type settings

## Menu



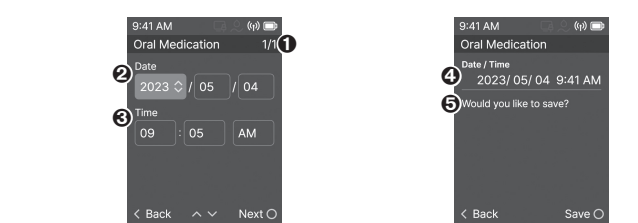
Index	Description
1	Sensor start or end menu <ul style="list-style-type: none"> <li>If the sensor is not in use, show start sensor</li> <li>If the sensor is in use, show end sensor</li> <li>When selected - Move to Sensor disconnection screen (or pop-up)</li> </ul>
2	Calibration menu <ul style="list-style-type: none"> <li>When selected - Move to Calibration value input screen</li> </ul>
3	Event menu <ul style="list-style-type: none"> <li>When selected - Show Event drop-down menu</li> </ul>
4	Statistics menu <ul style="list-style-type: none"> <li>When selected - Show Statistics drop-down menu</li> </ul>
5	Information menu <ul style="list-style-type: none"> <li>When selected - Show Information drop-down menu</li> </ul>
6	Settings menu <ul style="list-style-type: none"> <li>When selected - Show Settings drop-down menu</li> </ul>
7	Shutdown menu <ul style="list-style-type: none"> <li>When selected - Show Shutdown confirmation pop-up</li> </ul>

### Enter blood glucose



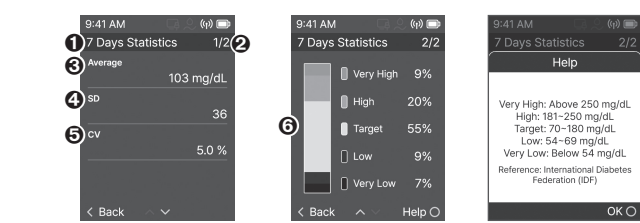
Index	Description
1	Event input page
2	Enter date
3	Enter time
4	Enter blood glucose value
5	Check entered information
6	Confirmation message after input is complete

### Enter oral medication



Index	Description
1	Event input page
2	Enter date
3	Enter time
4	Check entered information
5	Confirmation message after input is complete

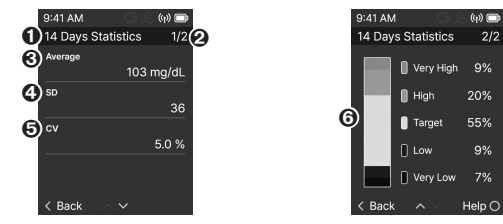
### 7 Days Statistics



Index	Description
1	Statistics period on page title
2	Page
3	Average blood glucose during selected period
4	SD during selected period
5	CV during selected period
6	TIR

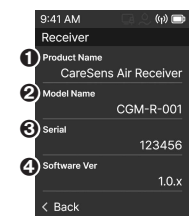


### 14 Days Statistics



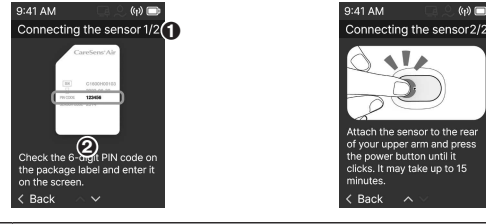
Index	Description
1	Statistics period on page title
2	Page
3	Average blood glucose during selected period
4	SD during selected period
5	CV during selected period
6	TIR

### Receiver



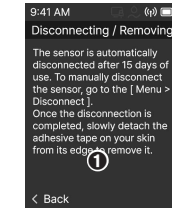
Index	Description
1	Model Name
2	Model information
3	Serial
4	Software Ver

### Connecting the sensor



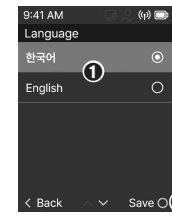
Index	Description
1	Page
2	Content for how to Connecting the sensor

### Disconnecting/Removing



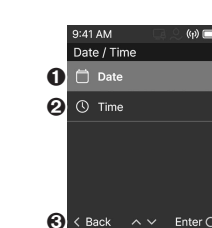
Index	Description
1	Content for how to Disconnecting/Removing

### LANGUAGE



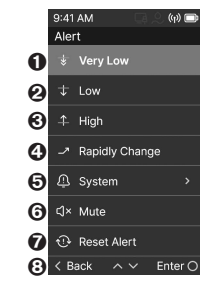
Index	Description
1	Language settings item
2	O key guide
3	When selected - Change Receiver language to selected language

### Date/Time



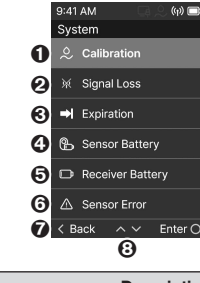
Index	Description
1	Date settings
2	Time settings
3	Back key guide

### Alert



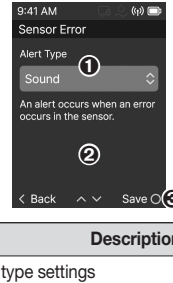
Index	Description
1	Very low alert settings
2	Low alert settings
3	High alert settings
4	Rapidly change alert settings
5	System alert settings
6	Mute
7	Reset alert settings
8	Back key guide
9	Up/down key guide

### System



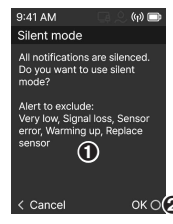
Index	Description
1	Calibration alert settings
2	Signal loss alert settings
3	Expiration alert settings
4	Sensor battery alert settings
5	Receiver battery alert settings
6	Sensor error alert settings
7	Back key guide
8	Up/down key guide
9	O key guide

### Sensor error alert settings



Index	Description
1	Sensor error alert type settings
2	Sensor error alert information
3	O key guide
4	When selected - Save selected alert type

### Mute settings

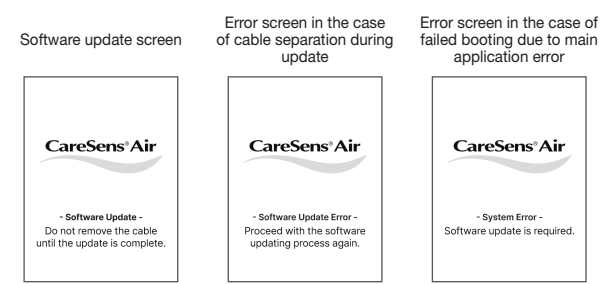


Index	Description
1	Mute settings information
2	O key guide
3	When selected - Run Mute settings

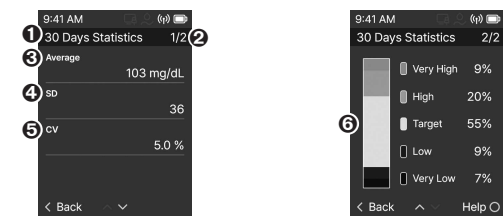
### Receiver low battery - End



### Boot loader

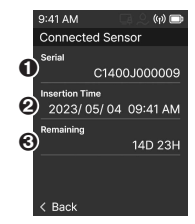


### 30 Days Statistics



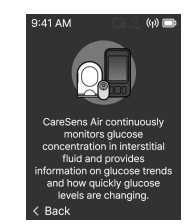
Index	Description
1	Statistics period on page title
2	Page
3	Average blood glucose during selected period
4	SD during selected period
5	CV during selected period
6	TIR

### Connected sensor



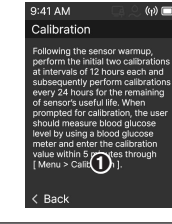
Index	Description
1	Sensor serial number information
2	Sensor starting date and time
3	Remaining time on sensor
4	If there is no connected sensor - shown

### About CareSens Air



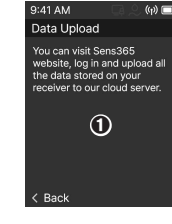
Index	Description
1	Content for how to Data upload

### Calibration



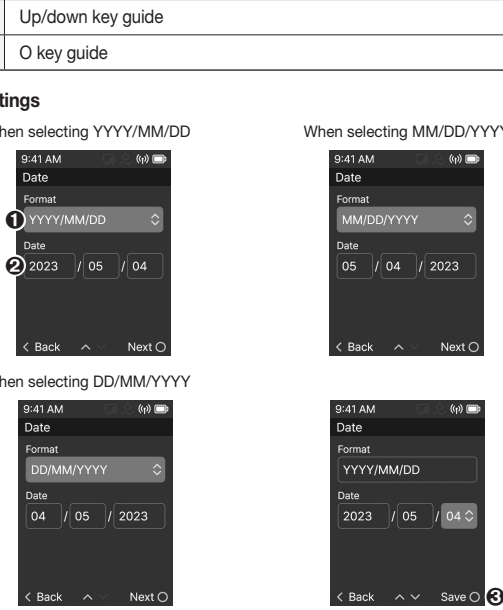
Index	Description
1	Content for how to Calibration

### Data upload



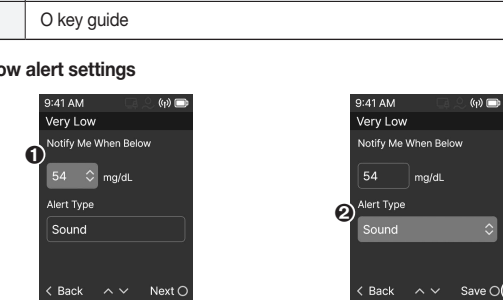
Index	Description
1	Selecting date style
2	Date settings
3	O key guide
4	Show as Save on last item settings
5	When selected - Save as selected date

### Date settings



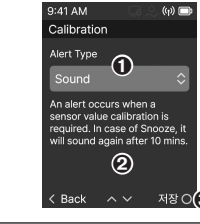
Index	Description
1	Selecting date style
2	Date settings
3	O key guide
4	Show as Save on last item settings
5	When selected - Save as selected date

### Very low alert settings



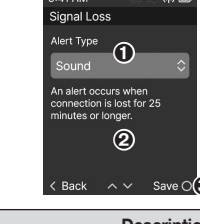
Index	Description
1	Very low alert standard value settings
2	Alert type settings
3	O key guide
4	Show as Save on last item settings
5	When selected - Save selected alert value, alert type

### Calibration alert settings



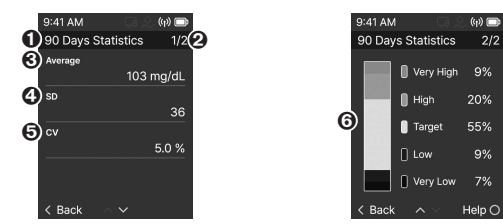
Index	Description
1	Calibration alert type settings
2	Calibration alert information
3	O key guide
4	When selected - Save selected alert type

### Signal loss alert settings



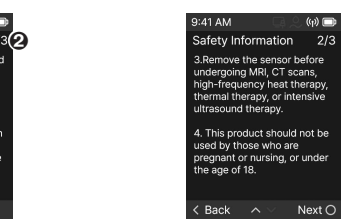
Index	Description
1	Signal loss alert type settings
2	Signal loss alert information

### 90 Days Statistics



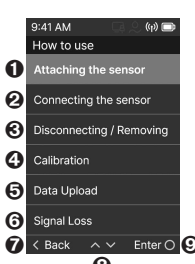
Index	Description
1	Statistics period on page title
2	Page
3	Average blood glucose during selected period
4	SD during selected period
5	CV during selected period
6	TIR

### Safety information



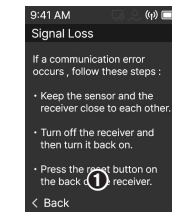
Index	Description
1	Page
2	Content for Safety information

### How to use



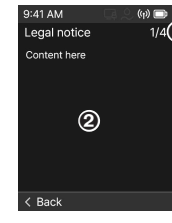
Index	Description
1	Attaching the sensor
2	Connecting the sensor
3	Disconnecting/Removing
4	Calibration
5	Data Upload
6	Signal Loss
7	Back
8	Error

### What to do in the case of a signal loss



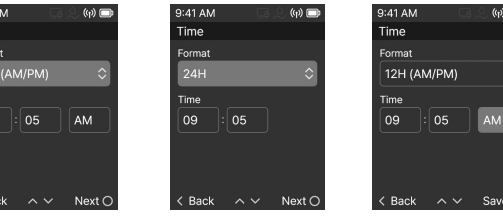
Index	Description
1	Content for how to manage the Signal loss

### Legal notice



Index	Description
1	Page
2	Content for Legal notice

### Time settings



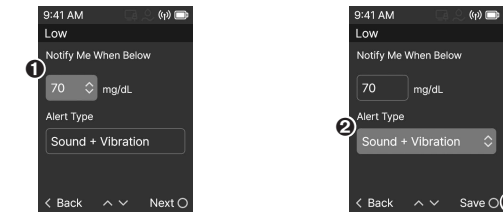
Index	Description
1	Selecting the Format
2	Time settings
3	O key guide
4	Show as Save on last item settings
5	When selected - Save as selected time

### Screen



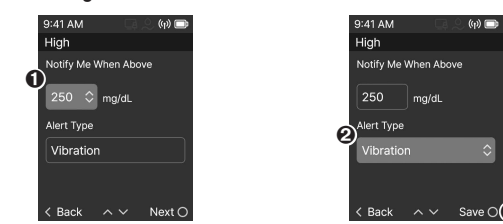
Index	Description
1	Screen brightness level
2	O key guide
3	When selected - Save as selected screen brightness

### Low alert settings



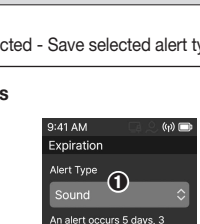
Index	Description
1	Low alert standard value settings
2	Alert type settings
3	O key guide
4	Show as Save on last item settings
5	When selected - Save selected alert value, alert type

### High alert settings



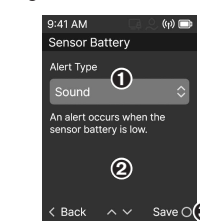
Index	Description
1	High alert standard value settings
2	Alert type settings
3	O key guide
4	Show as Save on last item settings
5	When selected - Save selected alert value, alert type

### Expiration alert settings



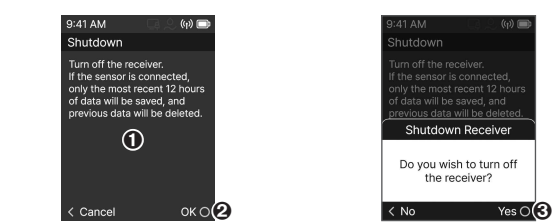
Index	Description
1	Expiration alert type settings
2	Expiration alert information
3	O key guide
4	When selected - Save selected alert type

### Sensor battery alert settings



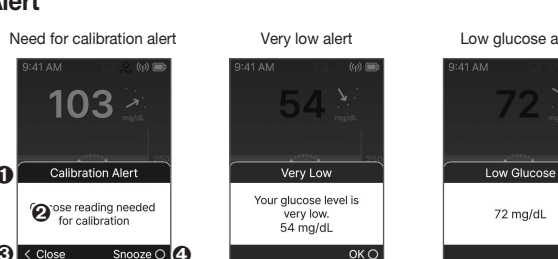
Index	Description
1	Battery alert type settings
2	Battery alert information
3	O key guide
4	When selected - Save selected alert type

### Shutdown

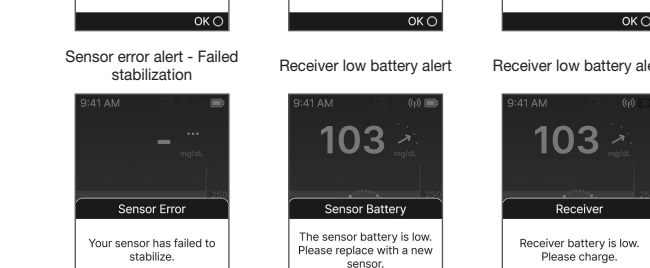
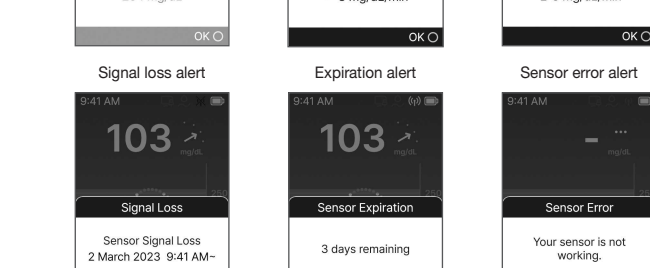
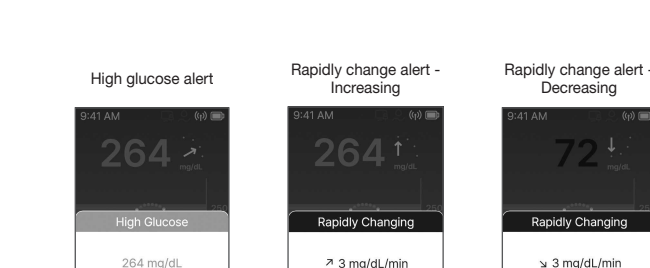


Index	Description
1	Shutdown information
2	O key guide
3	When selected - Show Shutdown confirmation pop-up
4	O key guide
5	When selected - Run Shutdown

### Alert



Index	Description
1	Need for calibration alert
2	Very low alert
3	Low glucose alert



### 04 Product specifications

#### Product specifications

ITEM	Specifications
Operation conditions	Temperature: +0 ~ +40 °C (32 ~ 104 °F) (TBD) Relative humidity: 10-90%
Storage and transport conditions	Temperature: +0 ~ +40 °C (32 ~ 104 °F) Relative humidity: 10 - 90%
Dust proof/moisture proof	IP22
Alert	Alert style: sound, vibration, mute alert • Very low, Low glucose, High glucose, Rapidly change, Calibration, Signal loss, Expiration, Sensor error, Sensor battery low, Receiver battery low
Receiving intervals	5 minutes
Storage capacity	180 days (TBD)
User controls	• 4 user control buttons - 1 select/power button - 1 go back button - 2 up/down buttons • 1 reset pinhole
Power	3.7 V
MCU	STM32L4P5ZG76
Battery lifespan	Fully charged in 5 hours, usable for 7 days
Power consumption	• Power saving mode: ≤ 2 mA • Operation mode (maximum): ≤ 200 mA (TBD)

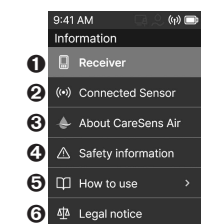
#### ITEM Specifications

ITEM	Wireless	Specifications
Communication	Wireless	USB type-C cable Bluetooth 5.2
Modulation		GFSK
Transmission distance		6 m
Size		• Height (H): 50 mm • Width (W): 96 mm • Thickness (D): 13.8 mm
Weight		69.7 g (TBD)
LCD		2.4" Color LCD
Color		Black

#### Other indicators

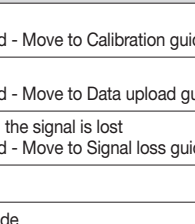
- Medical device
- Product name: CareSens Air Receiver
- Model name: CGM-R-001

### Information



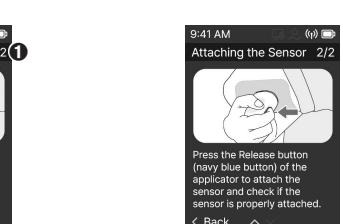
Index	Description
1	Receiver information
2	Connected sensor information
3	About CareSens Air
4	Safety information
5	How to use
6	Legal notice
7	Back key guide
8	Up/down key guide
9	O key guide

### Configuration



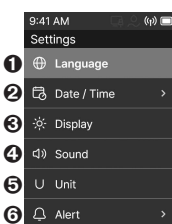
Index	Description
1	Language settings
2	Date/Time settings
3	Display settings
4	Sound settings
5	Unit settings
6	Alert settings menu
7	Chart Y-axis settings
8	Back key guide
9	Up/down key guide
10	O key guide

### Attaching the Sensor



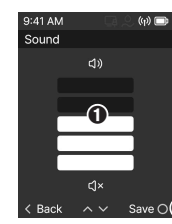
Index	Description
1	Page
2	Content for how to Attaching the sensor

### Configuration



Index	Description
1	Language settings
2	Date/Time settings
3	Display settings
4	Sound settings
5	Unit settings
6	Alert settings menu
7	Chart Y-axis settings
8	Back key guide
9	Up/down key guide
10	O key guide

### Sound



Index	Description
1	Volume level
2	O key guide
3	When selected - Save as selected volume

### Unit



Index	Description
1	Select blood glucose unit
2	O key guide
3	When selected - Save as selected unit