



# AT-Patch

## User Manual



**CE 2265**


MODEL: ATP-C130  
UM-C-001-D Ver 5.21\_EN\_12/2021

Medical device for single use only (Reuse is prohibited) "This product is a medical device."  
The warranty period is 12 months from the date of manufacture.



# Contents

---

<b>Product Descriptions .....</b>	<b>4</b>
Intended Purpose .....	4
Components .....	5
Instructions for Use.....	7
 <b>CAUTIONS.....</b>	<b>8</b>
Contraindications.....	8
Warnings.....	8
Measuring device (ATP-C130) and the App (AT-Note).....	9
Conditions for Use and Storage .....	10
<b>How to Use the Device (ATP-C130).....</b>	<b>11</b>
Instructions for Operating and Attaching the Device (ATP-C130).....	11
Instructions for Installing the App (AT-Note) .....	15
Specifications.....	17
<b>Product Disposal .....</b>	<b>18</b>
<b>Labeling and Packaging .....</b>	<b>19</b>
Labeling .....	19
Packaging.....	21
<b>How to Use the AT-Note App.....</b>	<b>22</b>
Screen with the App (AT-Note) Icon & Initial Run Screen.....	22
Connect to Device Window .....	23
Main Screen.....	24
LIVE Display Screen.....	25
RECORD Screen.....	27
Symptom Note Entry Screen .....	28
Symptom Note Details Screen .....	30
Symptom Note Revision Screen.....	32
Viewing Recorded Data.....	34

# Product Descriptions



This product (ATP-C130) is a patch-type ECG device that measures the potential differences transmitted to the surface of the body from the action potential generated from the activated myocardium. By attaching electrodes on certain sites, it displays, stores, and records the measured ECG data.

**Classification:** Electrocardiographic Holter Analysis

**Product Name (Model Number):** AT-Patch (ATP-C130)

**Manufacturer:** ATsens Co., Ltd.

**Head Office:** (13558) KINS TOWER 301, 8, Seongnam-daero 331beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

**Factory:** (13637) Point Town 803, 11, Gumi-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

**Contact:** Tel. +82-70-5220-0220/Fax. +82-70-8270-0738

**Authorized Representative**

- Name: CMC Medical Devices & Drug S.L.
- Address: C/Horacio Lengo n18 C.P 29006 Málaga-Spain
- Tel.: +34 951 214 054
- E-mail: info@cmcmedicaldevices.com

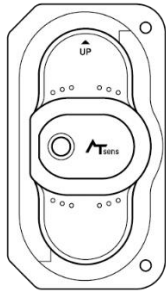
## Intended Purpose

- ▶ ATP-C130 is intended to measure, analyze, and report electrocardiogram (ECG) information for long-term monitoring (up to 14 days) by attaching to the skin surface. It is used for patients with heart disease such as arrhythmia or patients with suspected heart disease. Reported ECG metrics include single lead analysis in beats, heart rate measurement and rhythm analysis. Used by patients as prescribed by physician or medical personnel.
- ▶ Target Treatment group
  - asymptomatic or who may suffer from transient symptoms such as palpitations, shortness of breath, dizziness, light-headedness, pre-syncope, syncope, fatigue, or anxiety and patients who are asymptomatic
- ▶ Target User
  - physician or medical personnel

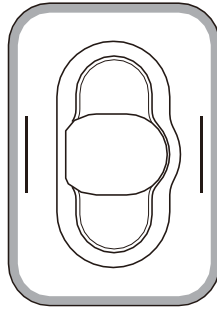
## Components

### ■ Device Components

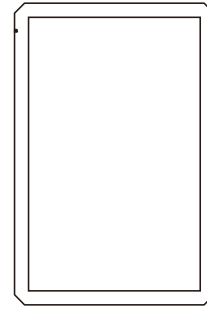
#### ▶ Basic Components



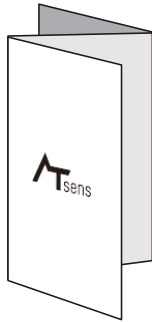
AT-Patch (ATP-C130)



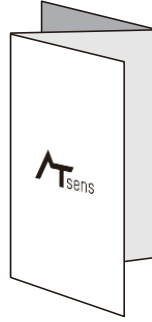
Pad Paper



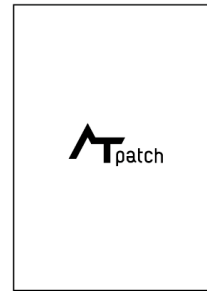
Sealing Bag



Quick Guide






Symptom Note



Gift Box

Figure 1.1 AT-Patch Basic Components

► Accessories & PC S/W (AT-Report) – Separate sale

		
<b>Accessory. Dedicated USB cable</b>	<b>PC S/W(AT-Report) USB Memory</b>	<b>BLE Dongle</b>
Our dedicated cable that connects the device with PC S/W for the purpose of transmitting the ECG data recorded in the device to PC S/W. It is connected via the USB Port located on the side of the device.	A USB memory stick for storing the PC S/W installation file to be provided to the users. A product with a test report or a certificate issued by national or accredited offices is used.	A dedicated BLE dongle used when connecting the device with PC S/W through BLE connection. A product with a test report or a certificate issued by national or accredited offices is used.

■ **App**

For Android™ users: Google play™ (<https://play.google.com/store>)

For iPhone® users: App Store<sup>SM</sup> (<https://www.apple.com/ios/app-store/>)

- Please search "AT-Note", "ATsens" in Google Play™ Store or App Store<sup>SM</sup>.
- Download the App.
- Perform the registration step, then start using the App.
  - Supports: Android 5.0 or later / iOS 11.0 or later

## ■ PC S/W

- ▶ USB provided: Storage size of 4 GB or greater
- ▶ Minimum requirements (PC)

Feature	Specification
Processor	Intel Core i7-9700K
RAM	16 gigabyte (GB)
Hard disk space	Main SSD: 512GB/Back-up HDD: 1TB
Graphics card	DirectX 9 or later with WDDM 1.0 driver
Display	1920 x 1080 / 24 inch Full-HD Monitor
OS	Windows 10 (64bit)

## Instructions for Use

- ▶ ATP-C130 is a device that measures, records, and stores the data from one ECG channel, and transmits the measured data using wireless communication (Bluetooth) to be displayed on the App and the PC S/W.
- ▶ Data to be recorded
  - ECG Signal
  - 3-axis Data
  - Temperature data of Device
  - Heart rate



# CAUTIONS

---

## Contraindications

- ▶ DO NOT use if you have current symptoms or medical history of skin cancer, rash, dermatosis, keloids, wounds, etc.

## Warnings

- ▶ This product is for single use only. Reuse is prohibited. Reusing it may lead to malfunction and inaccurate results.
- ▶ DO NOT attach to any other place than the recommended bodily location of application.
- ▶ Only authorized technicians are allowed to repair or disassemble ATP-C130.
- ▶ Make sure to be fully aware of how to use the product, through sufficient training, before using it.
- ▶ Avoid use at locations where wireless communication interference may occur (e.g., places where metallic hardware or electronic devices are frequently found).
- ▶ This product cannot be simultaneously used with a defibrillator.
- ▶ DO NOT expose to strong electromagnetic fields.
- ▶ Product disposal

Disposal of ATP-C130 and battery must comply with local waste disposal regulations. Non-compliance with waste disposal regulations may result in environmental pollution.

NOTE: The data stored within the device must be taken care of before disposal.



## Measuring device (ATP-C130) and the App (AT-Note)

### ■ Precautions

- ▶ Since improper application and use of the sensor may result in inaccurate measurements, please avoid:
  - Excessive movement on the patient's part
  - Application outside the recommended bodily locations
  - To prevent signal abnormalities due to the state of the patient's skin, sufficient notice of use from a medical specialist must be obtained before use.
- ▶ The following persons should consult a physician before using the device.
  - Patients with sensitive skin or skin allergy
  - Patients with wounds on the skin that contact the device
  - Pregnant women, breastfeeding mothers, infants or children
  - Patients with pacemakers, defibrillators, or other implantable electronic devices
- ▶ Take caution to avoid getting liquid in the device, and also avoid the following: (Dustproof and waterproof grade IP57)
  - Long-term exposure to water such as baths, swimming, etc.
- ▶ Avoid letting the device come into contact with organic compounds like thinners or benzene.
- ▶ Beware of strong shocks and vibrations.
- ▶ Once the product is detached from the body, do not reattach it.
- ▶ The smartphone on which the App is run must be one with a test report or a certificate issued by national or accredited offices.

## Conditions for Use and Storage

### ■ Conditions for Use

- ▶ Temperature range: 10 °C ~ 45 °C
- ▶ Relative humidity range: 10% ~ 95%, non-condensing
- ▶ Atmospheric range: 700hPa ~ 1060hPa
- ▶ Dustproof and waterproof grade: IP57

### ■ Conditions for Storage

- ▶ Temperature range: -20 °C ~ 55 °C
- ▶ Relative humidity range: 0% ~ 95%, non-condensing
- ▶ Atmospheric range: 700hPa ~ 1060hPa

# How to Use the Device (ATP-C130)

## Instructions for Operating and Attaching the Device (ATP-C130)

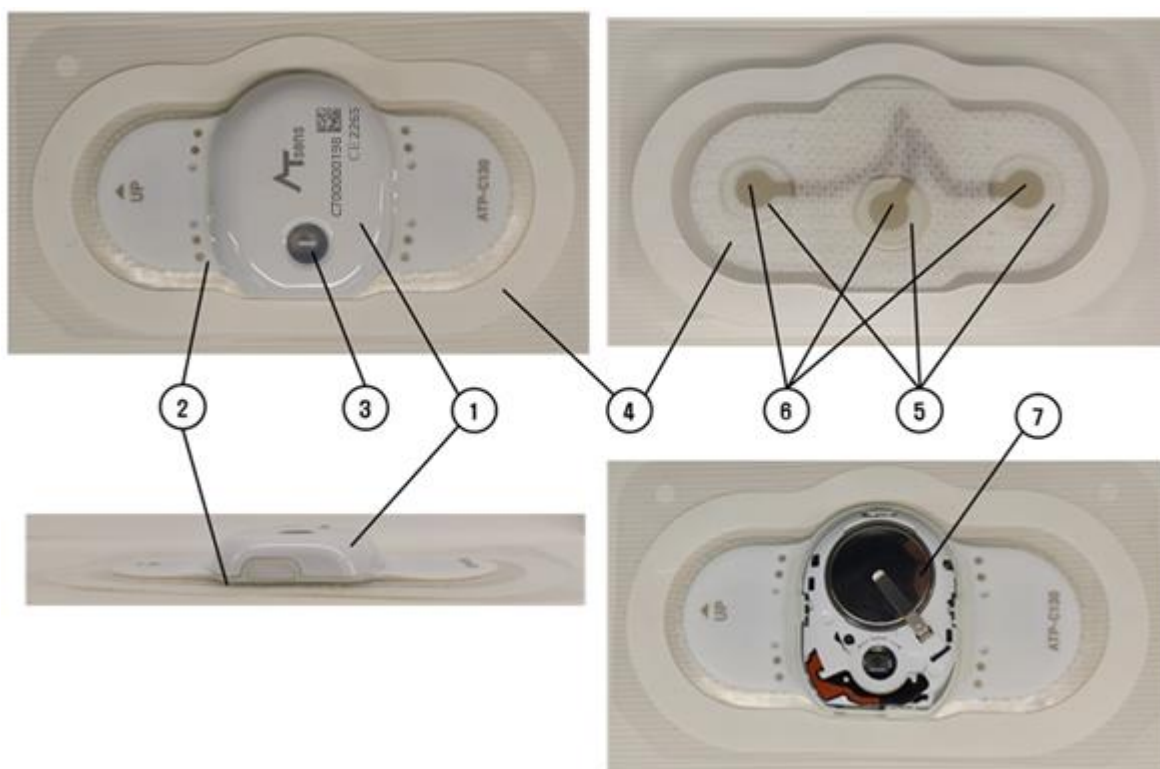


Figure 1.2 External appearance of the device

No.	Name	Description
1	Case Top	The Case Top is made of polycarbonate material, with the ATsens logo and S/N of the device printed on the surface.
2	Case BTM	Case Bottom is made of polycarbonate material and contains ECG electrodes.
3	Power Button/LED	The Power Button turns the power <b>ON</b> , and the power status can be confirmed through LED.
4	Main Patch	Main Patch attaches to the surface of the skin. Medical grade adhesive tape is used.
5	Hydrogel	Hydrogel, positioned between the ECG electrodes and the skin, allows for the measurement of ECG signals under uniform conditions.
6	Electrodes	ECG electrode
7	Battery	Coin Battery / CR2032

, USBTable 1.1 Table describing the external appearance of the device (ATP-C130)

## ■ Instructions for Operating the Device (ATP-C130)

- ① The device (ATP-C130) is initially packaged in Sleep Mode and delivered to the customer. Patient who wishes to attach the device should press the Power Button, #③ in [Figure 1.2], for 3 seconds, upon which the green LED blinks twice and a long “beep” sound occurs once. The device is now in Active Mode.
- ② Once the device (ATP-C130) is attached and connected to the App (AT-Note), it begins storing measured ECG signals in the internal memory. The device continues to store the ECG signals for the duration of use, and automatically goes into Sleep Mode after use. NOTE: If there is no App or AT-Report (PC S/W) Hookup connection for about 8 minutes after Active Mode is on, then the device goes into Sleep Mode following a single red LED blink and three “beep-- bebeep--” sounds.



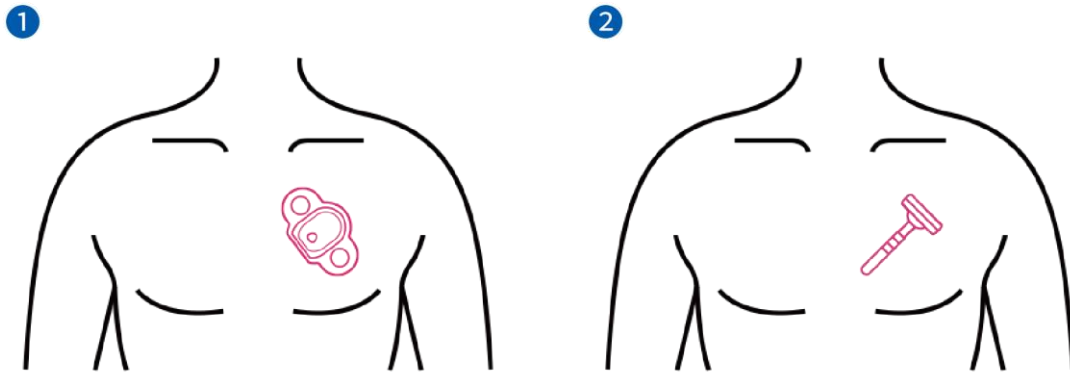
- **During the initial connection process, the connection between the device (ATP-C130) and AT-Report (PC S/W) Hookup or the App must be established at least once. Otherwise, the connection process is terminated as described in ②, and the device will not operate normally.** After the initial connection is established, ECG measurement is performed normally even if AT-Report (PC S/W) Hookup or the Bluetooth pairing for the App is terminated for some reasons.
  - The device cannot be used with a PC or smartphone that does not support Bluetooth.
- The working status of the device (ATP-C130) can only be confirmed through the App's real-time live monitoring or AT-Report (PC S/W) Hookup.
- Once the initial one-time connection is confirmed, ATP-C130 is not terminated for the duration of use (14 days).
  - Physically turning the power off is not possible. Automatic Power-Off will occur after the duration of use (14 days) has elapsed.
  - In case the buzzer or the Red LED blink was missed after ATP-C130's duration of use has passed, the App or AT-Report (PC S/W) Hookup can be used for confirmation.

## ■ Instructions for Attaching the Device on the Body (ATP-C130)

### ► State of the skin before attachment

An area larger than the device (ATP-C130) attachment area needs to be cleaned on the patient's skin. If body hair is abundant in the attachment area, shaving will be required to remove the hair.

NOTE: If a wound or bleeding occurs when removing body hair, the device should be attached after the bleeding stops.

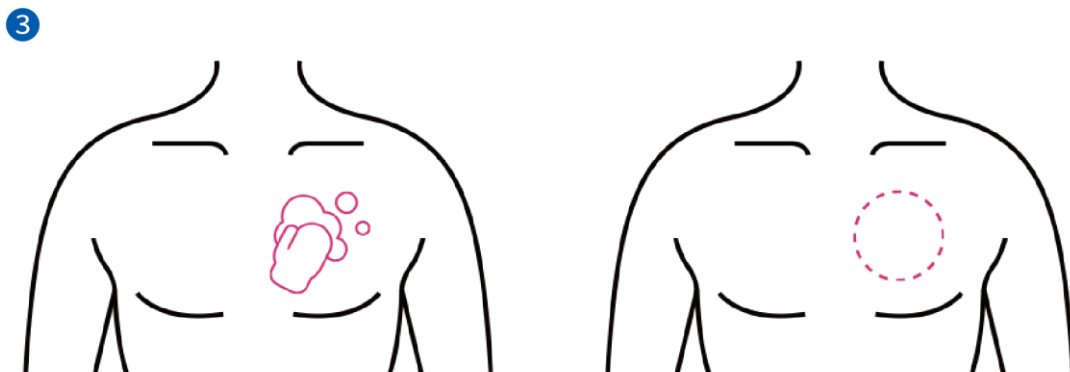


As demonstrated in the "confirm patch attachment site" figure ①, place the end of the patch about a finger's distance below the clavicle, and confirm the attachment site at a 45-degree angle.

If necessary, remove possible obstructions like hair using a razor, etc. as shown in the "shave the patch attachment site" figure ②.

Figure 1.3 Attachment preparation step – Confirming attachment site

To produce the accurate ECG signals, clean the attachment area using alcohol swabs to remove any possible obstructions such as dead skin cells, etc. from the skin surface. Then, fully dry the skin for at least one minute before attaching the device (ATP-C130).



### **Cleansing the patch attachment site with alcohol**

As illustrated in Figure ③, cleanse the attachment site to remove dead skin cells and possible obstructions by wiping horizontally, vertically and diagonally with alcohol cottons or swabs. Then, fully dry for at least one minute to make sure no alcohol is left on the surface.

Figure 1.4 Attachment preparation step – Removing possible obstructions from the attachment site

► Attaching the device to the body

After pressing the device (ATP-C130) Power Button, attach as follows

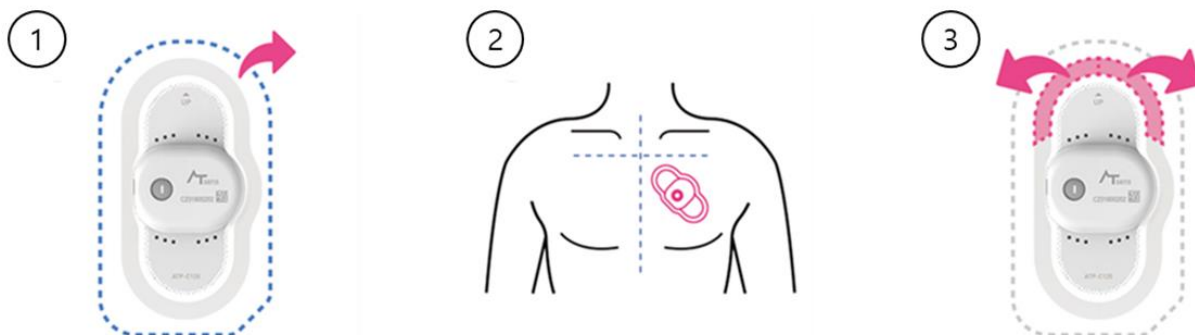


Figure 1.5 How to attach ATP-C130

1. As shown in [Figure 1.5] ①, remove the tape designed to protect the patch side. Once the protective tape is removed, attach the device to the body.
2. As shown in [Figure 1.5] ②, attach the device so that it is tilted toward the left nipple area, using the line in the middle between the two clavicles as the center. However, if the patient has a fuller chest or if diagonally attaching the device is difficult, the part directed toward the nipple should be raised a bit higher and then attached.
3. As shown in [Figure 1.5] ③, remove the bottom protective tape from the ECG Patch, then apply even pressure on the attached the ECG Patch.

## Instructions for Installing the App (AT-Note)

- ▶ Android™ users can download App (AT-Note) from Google play™ (<https://play.google.com/store>) on Android™ Market. [Figure 1.6] demonstrates the installation steps.

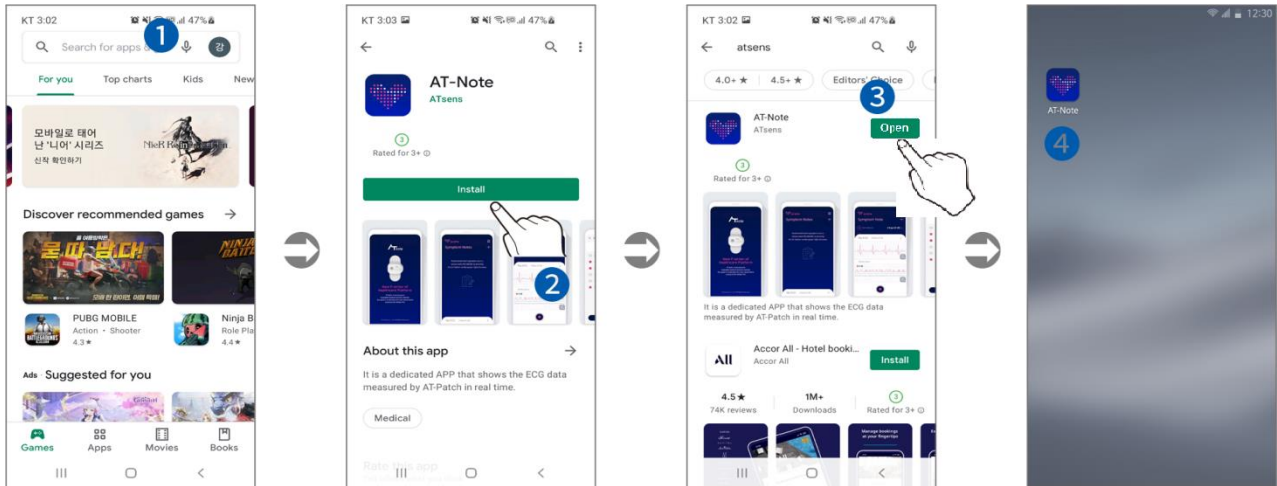


Figure 1.6 Installing the App – Android

1. As shown in [Figure 1.6] ①, search for either **AT-Note**, **ATsens**, **AT-Patch** in the Android™ market Google Play™ (<https://play.google.com/store>) search field.
2. As shown in [Figure 1.6] ②, click **Install** to download and install the App once the search result has returned **AT-Note**.
3. As shown in [Figure 1.6] ③, click **Open** to run the App when the installation is completed.
4. Once the **AT-Note** icon appears on the smartphone screen as shown in [Figure 1.6] ④, the installation has been successfully completed.
5. After installation, use according to How to Use the AT-Note App.

- ▶ For iPhone users (iPhone®), App (AT-Note) can be downloaded from App Store<sup>SM</sup> (<https://www.apple.com/ios/app-store/>) in the iOS Store. [Figure 1.7] demonstrates the installation steps.

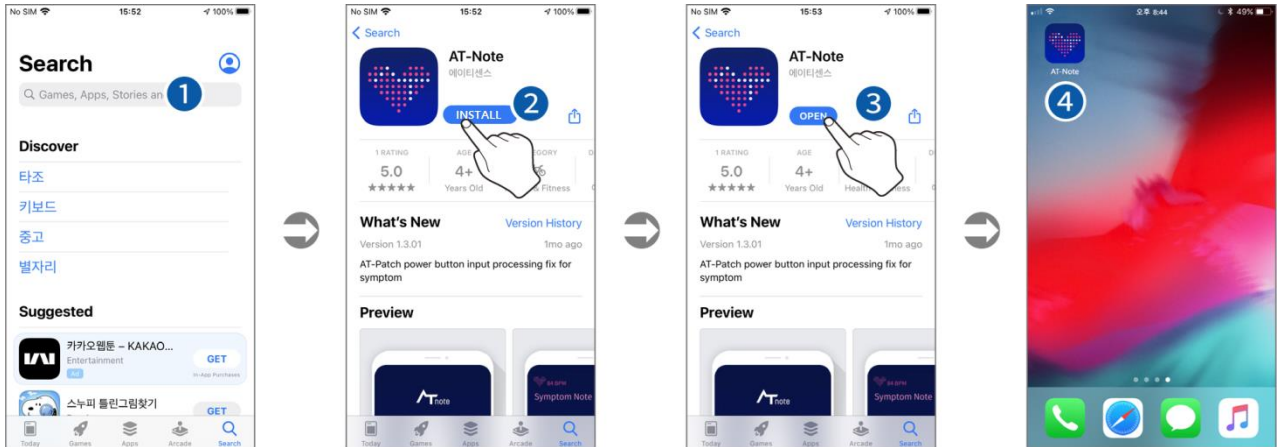


Figure 1.7 Installing the App – iOS


1. As shown in [Figure 1.7] ①, search either **AT-Note** or **ATsens** in the iOS App Store<sup>SM</sup> (<https://www.apple.com/ios/app-store/>) search field.
2. As shown in [Figure 1.7] ②, click **Install** to download and install the App once the search result has returned **AT-Note**.
3. As shown in [Figure 1.7] ③, click **Open** to run the App when the installation is completed.
4. Once the **AT-Note** icon appears on the smartphone screen as shown in [Figure 1.7] ④, the installation has been successfully completed.
5. After installation, use according to How to Use the AT-Note App.



## Specifications

### ■ ATP-C130 Specifications

ATP-C130		
	Item	Description
<b>ECG</b>	Type	BF type
	Sampling Rate	250 sample/sec
	Input Offset Dynamic Range	±300mV
	Channel	1 channel
	ADC Resolution	10 bits
	Input Impedance	≥10MΩ
	Frequency Response	0.05Hz to 40Hz
<b>Electrode</b>	AC impedance	Less than 3KΩ (10Hz)
	RF communication	2.4GHz BLE 4.2
<b>RF</b>	Effective Radiated Power	<1mW
	RF Frequency Band of TX	2.4GHz
	Bandwidth of the Receiver	2400 ~ 2480MHz
<b>S/W</b>	CPU	ARM Cortex-M4
	Supported App	Up to Android 5.x or iOS 11.x
	Supported PC S/W Version	Window 10 (64bit)
<b>Power Requirement</b>	Power Supply	DC 3V, Coin Battery (CR2032)
	Battery Life	Up to 14 days
<b>Physical Characteristics</b>	Total Size (L x W x H: mm)	95 x 52.6 x 8.3
	Main Body Size (L x W x H: mm)	39 x 31 x 7.8
	Weight (g)	Below 13g

 App (AT-Note) / PC S/W (AT-Report): The smartphone and PC used must be one with a test report or a certificate issued by national or accredited offices.

# Product Disposal

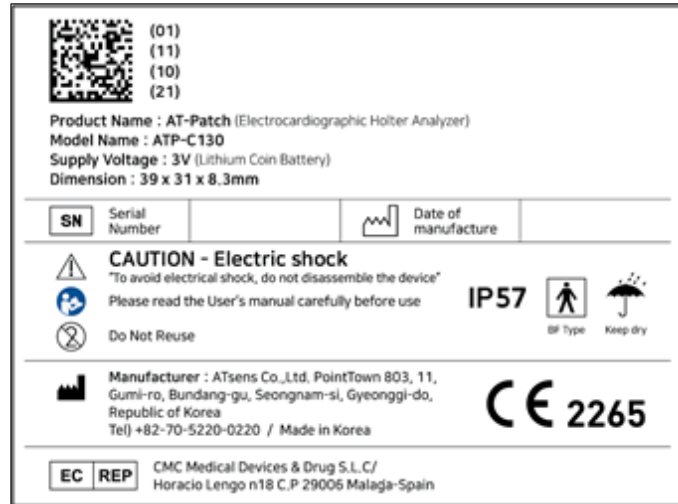
---

- ▶ This product is a medical device for single use only. Reuse is prohibited.
- ▶ Disposal of ATP-C130 and battery must comply with local waste disposal regulations. Non-compliance with waste disposal regulations may result in environmental pollution.

# Labeling and Packaging








## Labeling

### ■ Package Label



### ■ Explanation of Visual Symbols of Label

No.	Symbol	Descriptions
1		The serial number that identifies the object
2		Date of manufacture
3		Authorized representative in the European Community / European Union
4		Keep dry
5	<b>IP57</b>	Protection from dust does not penetrate dust that interferes with normal operation, and protection against water is defined as a protection condition that can be used by submerging in water under a set condition (1m, 30 minutes).
6		Caution The equipment may be damaged if the instruction is not observed
7		Instruction for User manual
8		Do Not Reuse (Disposable medical devices)
9		Type of applied part
10		Manufacturer

11		CE Marking of Conformity
12		Do not use if package is damaged and consult instructions for use
13		Keep away from sunlight
14		Temperature limit (Storage): -20°C~55°C
15		Atmospheric pressure limitation (Storage): 700hPa ~ 1060hPa
16		Relative humidity limitation (Storage): 0%~95% (non-condensing)
17		Separate collection for Waste Electrical and Electronic Equipment (WEEE)

## Packaging

### ■ Basic Components

Classification	Internal packaging	Components	Quantity	Packaging Material	Tools Used
Basic Components	External: Box gift	Bag Sealing Gift	1EA	Paper	Scissors / Tape
	Bag Sealing Gift	ATP-C130	1EA	BAG GIFT	Scissors
	Symptom Note		1EA	Vellum paper	Handling
	Quick Guide		1EA	Vellum paper	Handling

### ■ PC S/W & Accessories

Classification	Internal packaging	Components	Quantity	Packaging Material	Tools Used
Accessories	Dedicated USB Cable		2EA	BAG PE	Handling
USB Memory	PC S/W(AT-Report)		1EA	BAG PE	Handling
BLE Dongle	BLE Dongle		1EA	BAG PE	Handling

# How to Use the AT-Note App

AT-Note is a smartphone APP (Android / iOS) that controls AT-Patch wirelessly (Bluetooth) and provides ECG data output transmitted from AT-Patch in real time. The 3-axis sensor measures and records rapid movements of the patient or user. The 3-axis sensor checks the magnitude of the movements by detecting speed changes in the X, Y, and Z axes measured through a single acceleration sensor, and displays the measured data in a two-dimensional form.

## Screen with the App (AT-Note) Icon & Initial Run Screen

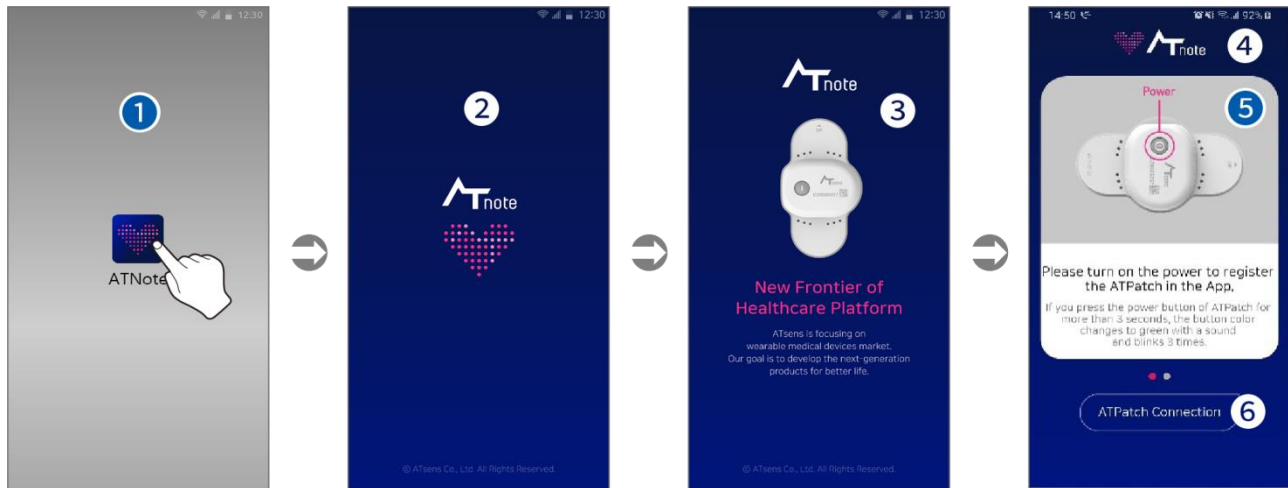


Figure 1.8 AT-Note\_App icon installed & intro screen

No	Item	Description
1	App, AT-Note Icon	The App (AT-Note) can be started by clicking the icon
2	Intro screen 1	This Intro screen is displayed for about 2 seconds when App (AT-Note) starts, before transitioning to the next screen.
3	Intro screen 2	The Intro screen is shown for about 1 second before transitioning to the next screen.
4	Intro screen 3	Intro screen
5	Device connection guides	Guide for connecting with the device
6	Move to "Connect to device screen" icon	Icon that leads to the "Connect to device screen"

Table 1.2

## Connect to Device Window

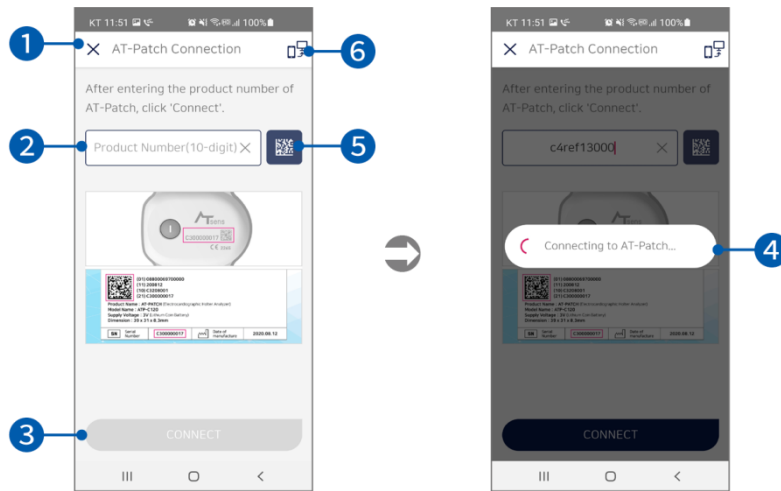


Figure 1.9 Initial & in-progress screen for connecting to the device

No	Item	Description
1	Cancel connecting to device icon	Once the icon is clicked, connecting to the device is canceled, and [Figure 1.9] screen shows up
2	Device PSN information input field	Input field where the PSN information of the device to connect is entered.
3	Connect to device icon	Once the icon is clicked, connecting to the device with the PSN information entered begins
4	Connection progress bar	A bar displaying the connection progress to the device
5	Scan Data Matrix icon	Once the icon is clicked, the Data Matrix scan screen shows up
6	Symptom Note transmission button	Button for transmission of the Symptom Note to PC (AT-Report)

Table 1.3

## Main Screen

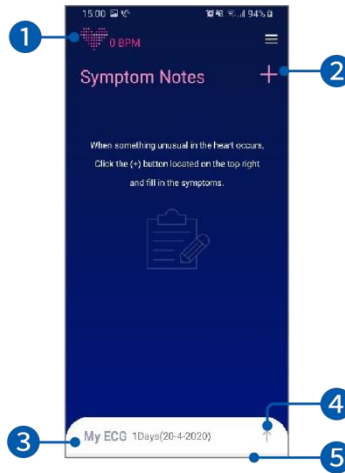


Figure 1.10 AT-Note initial Main Screen

No	Item	Description
1	Heart rate data output section	A section displaying heart rate (BPM) data output
2	Make Symptom Note entry icon	Icon that leads to the Symptom Note entry screen
3	The Day number of using the App (AT-Note) and current date output section	A section displaying the Day number of using the App (AT-Note) and current date
4	ECG and 3-axis data real-time output icon	Icon to generate real-time ECG and 3-axis data output as graphs
5	ECG and 3-axis data output section	A section displaying the ECG and 3-axis data output through graphs in real time

Table 1.4



# LIVE Display Screen

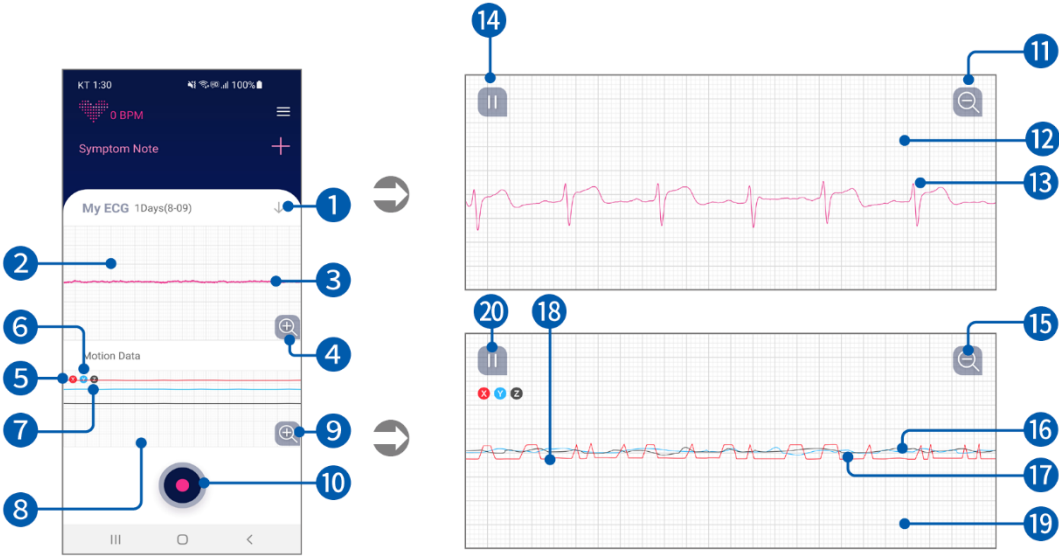


Figure 1.11 Live display screen (left) & zoomed in ECG graph section (top right) & zoomed in 3-axis data graph section (bottom right)

No	Item	Description
1	Stop generating real-time ECG and 3-axis data output icon	Icon to stop generating ECG and 3-axis data output through graphs
2	ECG graph output section	A section displaying real-time graph of the ECG data output
3	ECG graph	Real-time graph of ECG data
4	ECG graph zoom-in icon	Icon for enlarging the ECG graph measured in real time
5	X-axis graph	Graph of the X-axis measurement currently being measured through the 3-axis sensor
6	Y-axis graph	Graph of the Y-axis measurement currently being measured through the 3-axis sensor
7	Z-axis graph	Graph of the Z-axis measurement currently being measured through the 3-axis sensor
8	3-axis data output section	A section displaying the 3-axis data output being measured in real time
9	3-axis data zoom-in icon	Icon for enlarging the 3-axis data being measured in real time
10	Record real-time data icon	Icon for recording the ECG and 3-axis data being measured in real time
11	ECG graph zoom out icon	Icon for shrinking the ECG graph being measured in real time
12	ECG graph output section	A section displaying the graph within the zoomed-in ECG data screen
13	ECG graph	Graph generated within the zoomed-in ECG data screen
14	Pause ECG graph icon	Icon to temporarily stop the ECG graph being played
15	3-axis data graph zoom out icon	Icon for shrinking the 3-axis data graph being measured in real time
16	X-axis graph	Graph of the X-axis measurement currently being measured through the 3-axis sensor
17	Y-axis graph	Graph of the Y-axis measurement currently being measured through the 3-axis sensor
18	Z-axis graph	Graph of the Z-axis measurement currently being measured through the 3-axis sensor
19	3-axis data graph output section	A section displaying the graph within the zoomed-in 3-axis data screen
20	Pause 3-axis data graph icon	Icon to temporarily stop the 3-axis data graph being played

Table 1.5

## RECORD Screen

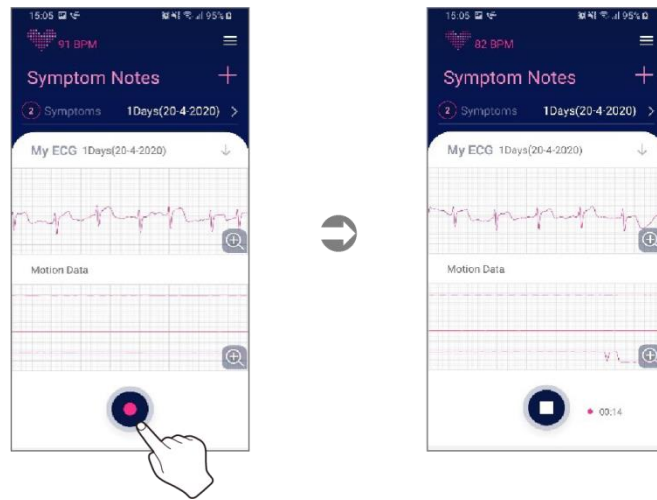


Figure 1.12 Screen displayed after the Record button is clicked

Upon tapping the Record icon in the left screen of the [Figure 1.12] above, the Record icon is replaced with the Stop icon and recording begins, with the recording time displayed to the right of the Stop icon.

## Symptom Note Entry Screen

### ■ Making Symptom Note Entries Using the App (AT-Note)

The screens in [Figure 1.13] shows the steps of making Symptom Note entries using the App in order. Upon tapping the Make Symptom Note Entry icon on the lower right side in the Main Screen (i.e. the first screen on the far left in [Figure 1.13]), the initial screen for Symptom Note entry is displayed. The Symptom Note entry is entered in the order of: date, time of occurrence of given symptom, type of symptom, activity status, and other opinions. Once a Symptom Note entry is made, the list of Symptom Note entered is displayed in the main page.

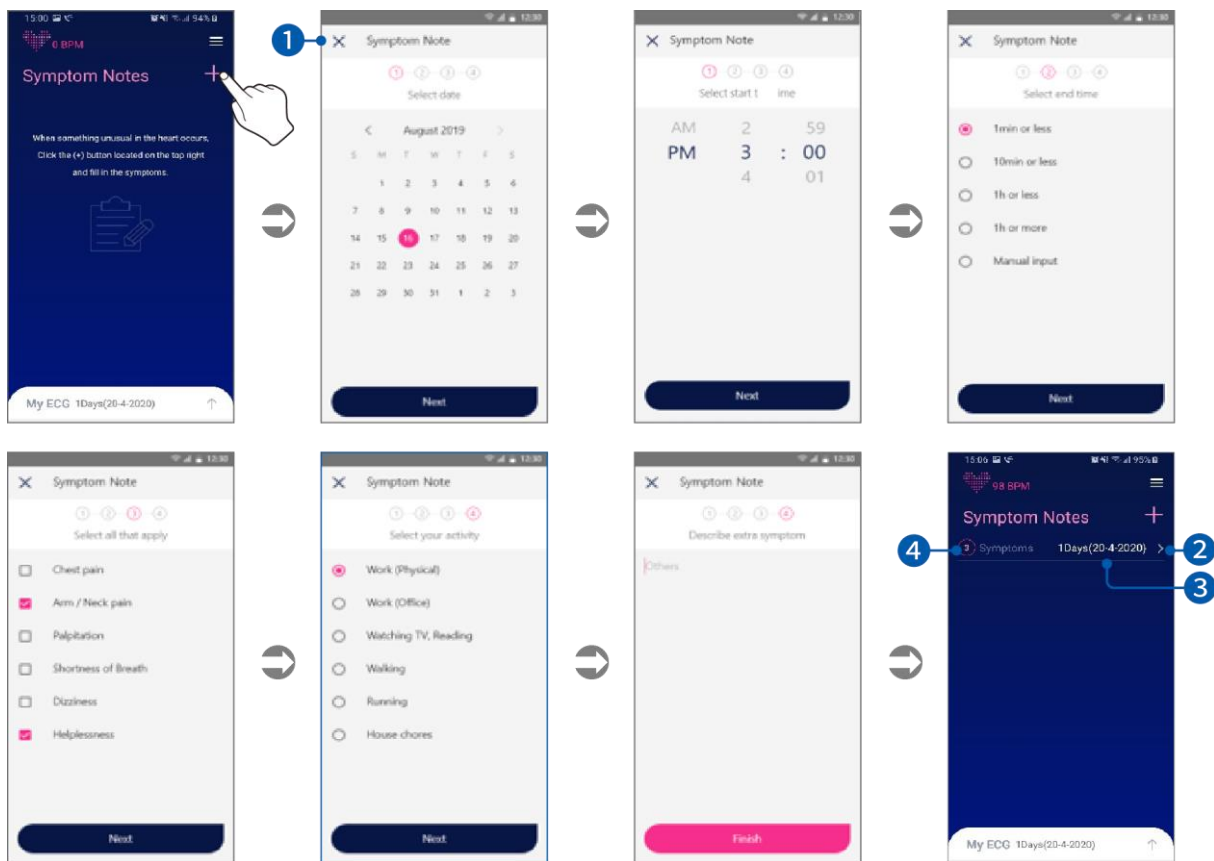


Figure 1.13 Screen Showing the Process for Making Symptom Note entries using the App

No	Item	Description
1	Quit making Symptom Note entry icon	Icon to quit making Symptom Note entry
2	Symptom Note details icon	Icon to view details of registered Symptom Note entries
3	The Day number of using the App (AT-Note) and current date	The Day number of using the App (AT-Note) and current date displayed
4	Symptom Note entry count	Symptom Note entry count for the Day number of using the App (AT-Note)

Table 1.6

## ■ Making Symptom Note Entries Using the Device (AT-Patch)

Below [Figure 1.14] is the symptom note registration screen using the device. Once the Power icon on the device is pressed for about 0.2 seconds, the relevant information is transmitted wirelessly (via Bluetooth) to the App, and the App receives the event information from the device. As shown in the screen on the right, a dialog box is displayed to ask whether to record the symptoms immediately in a pop-up window. If the **Later** icon is tapped, the Symptom Note entry count on the main page increases, but no new screen shows up. Once "Write symptoms" is tapped, the first screen for making Symptom Note entry is displayed.

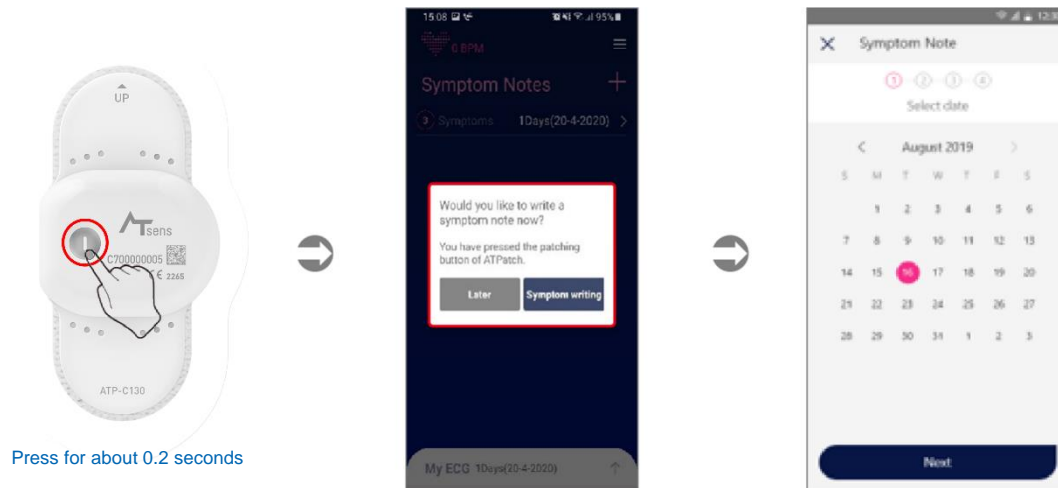


Figure 1.14 Making Symptom Note entries using the device (AT-Patch)

## Symptom Note Details Screen

### ■ Viewing Details for Symptom Note Entries Made Using the App (AT-Note)

By tapping the registered Symptom Note details icon in the Main Screen, the screen listing the registered Symptom Note for a Day number of using the App is displayed as shown in [Figure 1.15]. The registered Symptom Note entry list for a Day number of using the App is briefly displayed, as seen in the red rectangular section. Once the red rectangular section is tapped, the details screen for one case of the Symptom Note shows up.

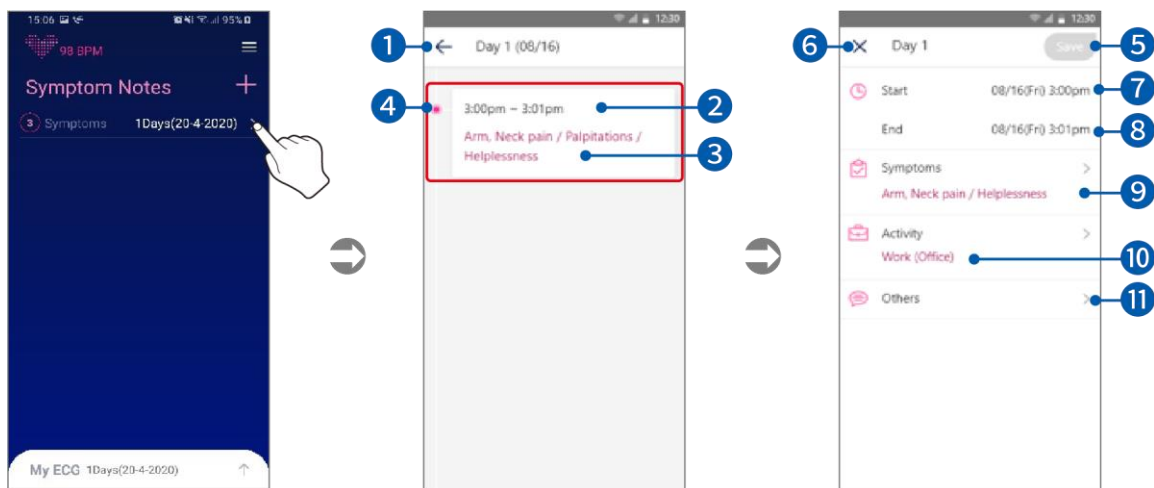


Figure 1.15 Details screen for Symptom Note entries made using the App

No	Item	Description
1	Go Back icon	Icon for the Go Back command
2	Time	Symptom occurrence start time and end time
3	Symptom type	Displays symptom type
4	Symptom Note entry completed / incomplete, and recorded ECG data display	Displays completed / incomplete Symptom Note entries, and recorded ECG data (red when completed, black when not completed, and red when ECG recording data is available)
5	Save Symptom Note revision icon	Icon for save the Symptom Note revision command
6	Close Symptom Note details icon	Icon for the close Symptom Note details command
7	Start time	Symptom occurrence start time
8	End time	Symptom occurrence end time
9	Symptom type	Displays symptom type
10	Activity type	Displays activity type
11	Other explanation	Icon for adding other explanation

Table 1-7

## ■ Viewing Details for Symptom Note Entries Made Using the Device (AT-Patch)

When Symptom Note entry is made using the device, the time of the event, as seen in the red rectangular section in [Figure 1.16], is displayed with only the symptom start time. All other content hasn't been set yet. Because the Symptom Note entry is incomplete, the Symptom Note entry completion status is displayed in black. By tapping on the red rectangular section, other items excluding the symptom start time can be confirmed.

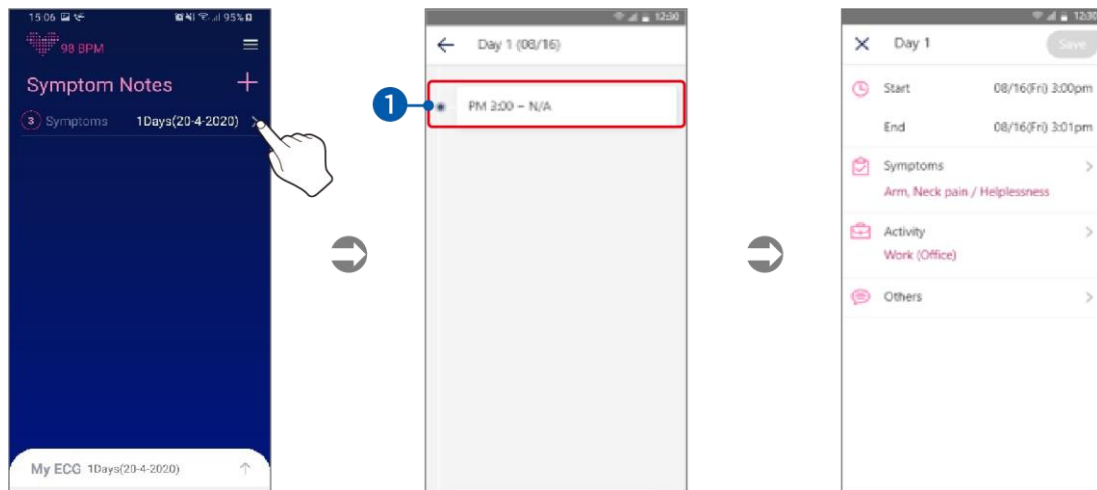


Figure 1.16 Details screen for Symptom Note entries made using the device (AT-Patch)

## Symptom Note Revision Screen

The top left screen from the [Figure 1.17] below shows the details screen for a single entry of Symptom Note, with the revision icon or revision icon area for each item indicated. Upon tapping each revision icon or revision icon area, the previously selected values for the items are displayed on the screen. Since there are no values set for each of the items except for the symptom occurrence start time regarding entries registered in the Symptom Note through the device, they have to be entered by tapping the revision icon or revision icon area.

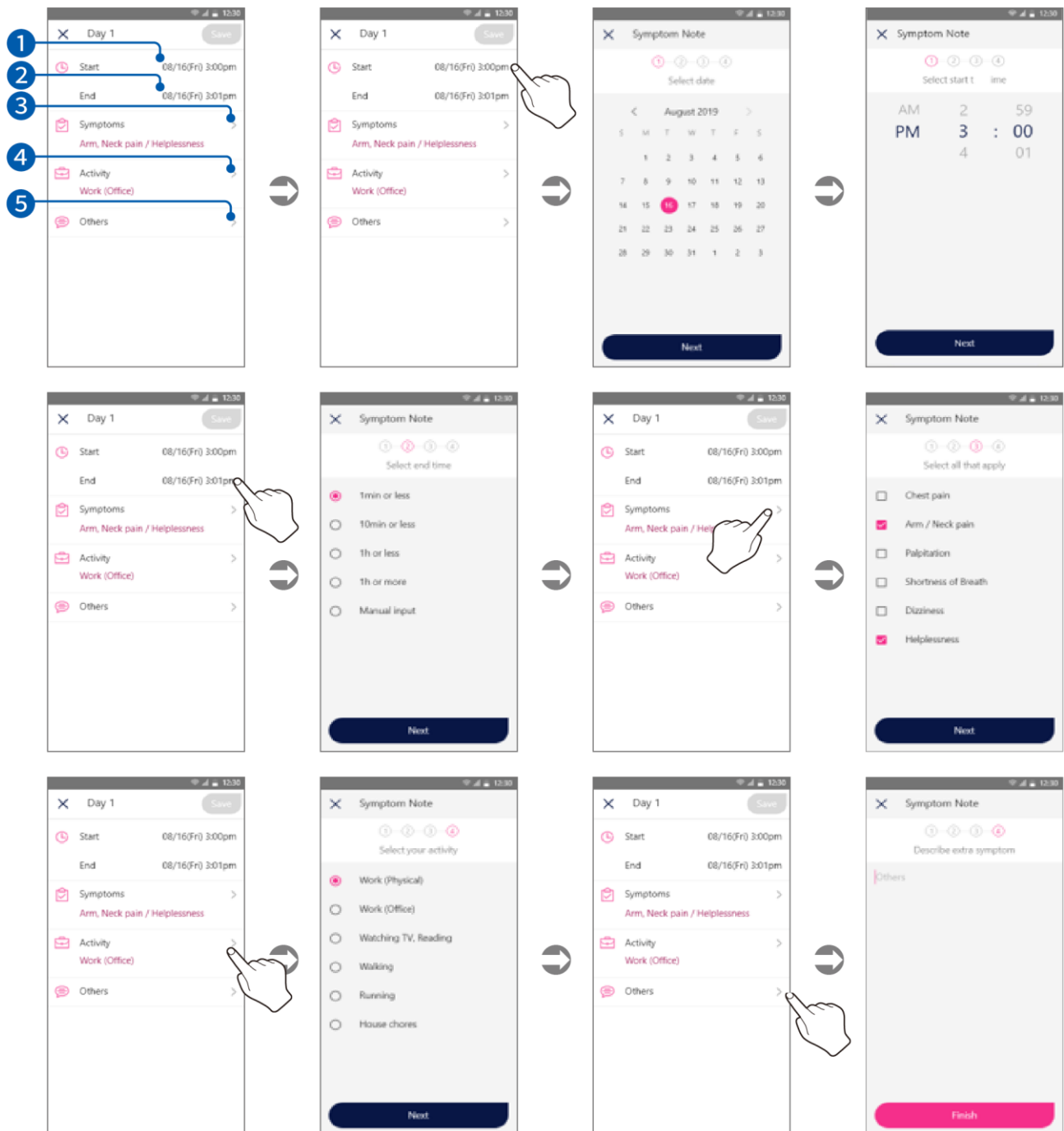


Figure 1.17 Symptom Note revision screen



No	Item	Description
1	Symptom occurrence start time revision icon area	Area serving as the command icon for symptom occurrence start time revision
2	Symptom occurrence end time revision icon area	Area serving as the command icon for symptom occurrence end time revision
3	Symptom type revision icon	Area serving as the command icon for symptom type revision
4	Activity type revision icon	Icon for activity type revision command
5	Add other explanation icon	Icon for adding other explanation

Table 1.8

## Viewing Recorded Data

As shown in the red rectangular section, the recording data can be accessed through the screen that lists the registered Symptom Note entries for a Day number of using the App. The ECG recording data does not include Symptom Note contents, only ECG data. The ECG recording data viewing screen is displayed upon tapping the red rectangular section.

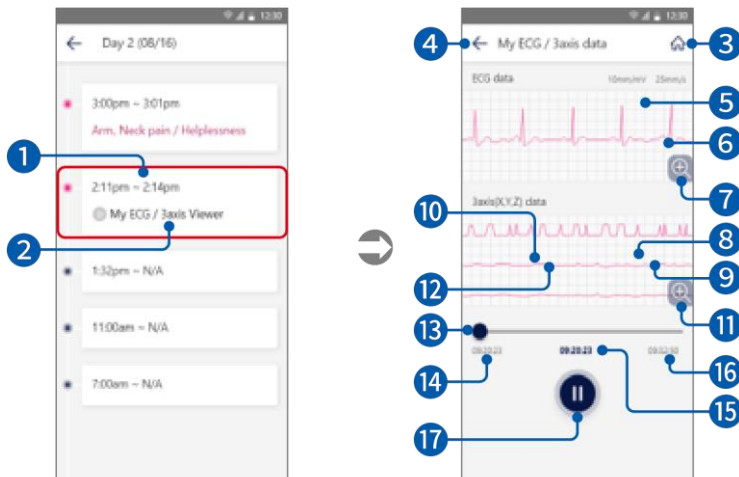


Figure 1.18 ECG and 3-axis recording data viewing screen

No	Item	Description
1	ECG recording start time and end time	ECG recording start time and end time
2	Move to ECG recording data viewing screen icon	Command icon for moving to the ECG recording data viewing screen
3	Move to Main Screen icon	Command icon for moving to the Main Screen
4	Go Back icon	Icon for the Go Back command
5	ECG graph output section	A section displaying the graph within the ECG data
6	ECG graph	ECG data graph
7	ECG graph zoom-in icon	Icon for enlarging the ECG graph
8	X-axis graph	Graph of the recorded X-axis measurement through the 3-axis sensor
9	Y-axis graph	Graph of the recorded Y-axis measurement through the 3-axis sensor
10	3-axis data output section	A section displaying the 3-axis data output being measured in real time
11	3-axis data zoom-in icon	Icon for enlarging the 3-axis data being measured in real time
12	Z-axis graph	Graph of the recorded Z-axis measurement through the 3-axis sensor
13	Playback progress bar	Bar displaying the file playback progress
14	Data storing start time	Displays the data storing start time of the file currently being played back
15	Playback progress	Displays the progress in time of the file currently being played back
16	Data storing end time	Displays the data storing end time of the file currently being played back
17	PLAY / PAUSE	Start and pause command icon for the file being played back

Table 1.9





## Contact Us

**Head Office:** (13558) KINS TOWER 301, 8, Seongnam-daero 331beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

**Factory:** (13637) Point Town 803, 11, Gumi-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

**Email:** [sales@atsens.com](mailto:sales@atsens.com)

**Tel:** 070-5220-0220

**Fax:** 070-8270-0738

**[www.atsens.com](http://www.atsens.com)**