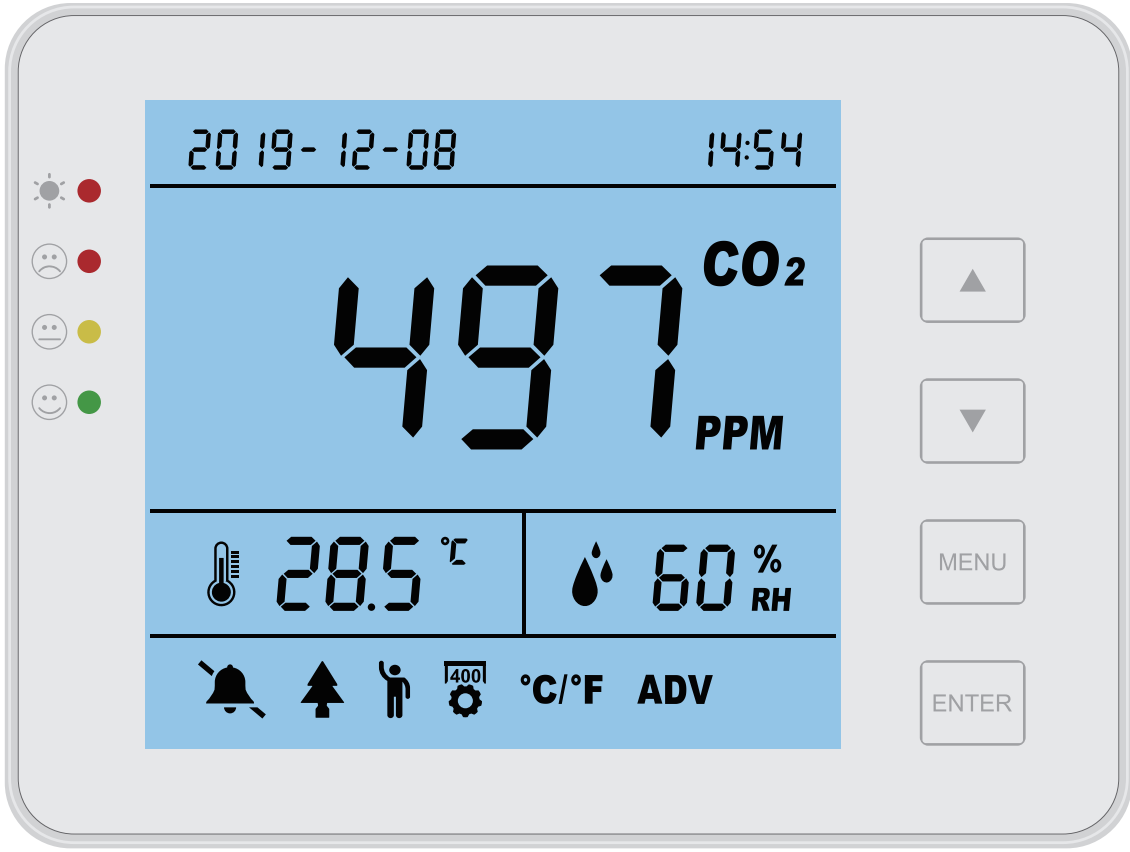
CO2 MONITOR - SA1300P

Instruction Manual



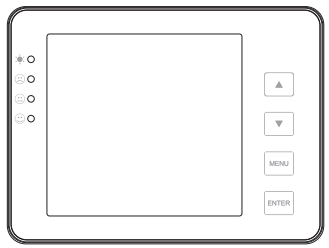
CE RoHS 2.0 REACH

CO2/TEMP/RH

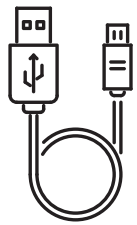
Contents

Packing List

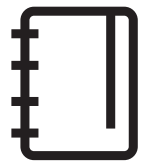
1. CO2 Monitor Unit



2. USB Cable for Power



3. User’s Manual



4. AC Adapter (Optional)

Warning

- The provided USB cable can be ONLY used as power supply for this device.
- Do NOT disassemble this device or change internal wiring.
- Do not store or use this product in high temperature, high humidity, flammable, explosive and strong electromagnetic environment.
- Do NOT run restore factory defaults too often, or it will cause program damage.
- Keep this device away from your face, or the exhaled carbon dioxide will affect its accuracy.

Getting Started

Thanks for purchasing SA1300P air quality monitor(CO2/TEMP/RH). This product is applied to display CO2 concentration, temperature and humidity for indoor air quality monitoring.

Features at a Glance

- HD Large Display
- Wall mounted and Desktop
- Touch Button Operation
- 15°Bevel Design, Easy to Read
- Low Drift NDIR Sensor, Long Lifespan
- Audible and Visual Alarm
- Temperature, Humidity and CO2 Monitor, Date and Time Display
- Auto-calibration and Manual Calibration
- Built-in Backup Battery

General Operation and Settings

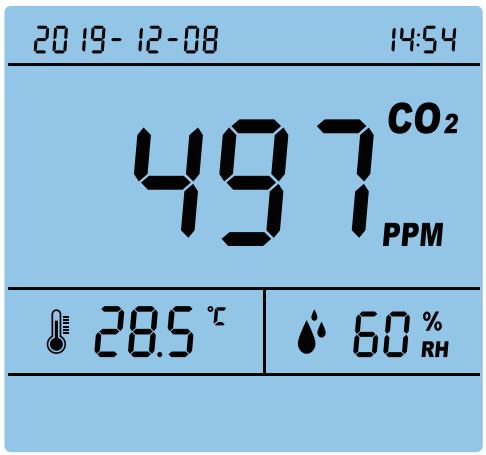
-In Detection Panel (See Pic.1), press MENU once will bring up the main menu, and press ▼ / ▲ / MENU to select each function item. See detail in page 9.

-Enter 🔔 to switch audible alarm 🔔 and mute 🔕. See detail in Page 9.

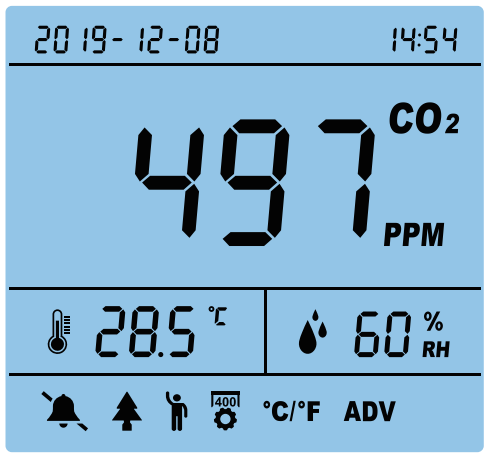
-Select plant 🌲 or human 🚹 mode, while underlining bar is flashing, pressing ENTER will lead to ADV. See detail in Page 10.

-Enter °C/°F to switch temperature units ℃ and ℉. See detail in Page 12.

-Press MENU once to enter/exit main menu.



(Pic.1: Detection Panel)



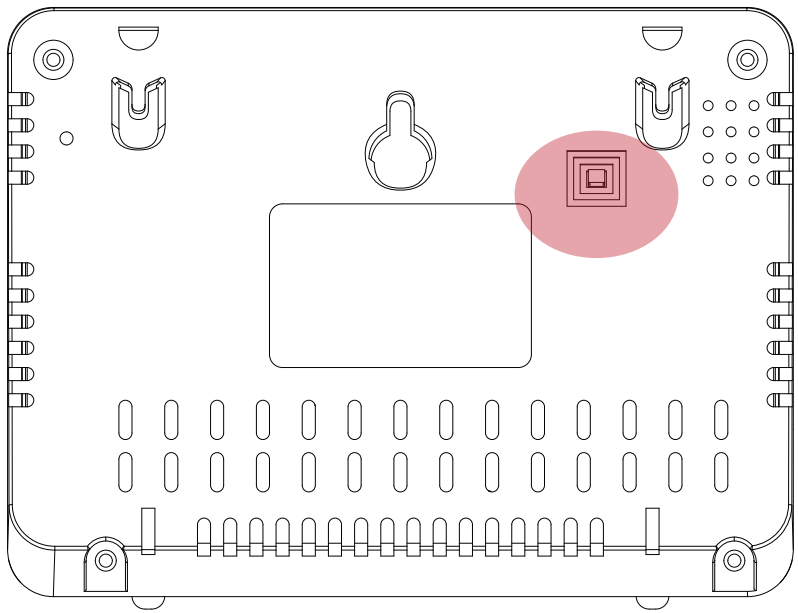
(Pic.2: Operation Panel)

Restore Factory Defaults

In Detection Panel (See Pic.1), hold ENTER for 3 seconds until an audible beep is heard.

Switch On/Off

Press down the switch to activate this monitor, wait for 3 minutes for warm-up.
Press the switch again to switch it off.



Switch on:

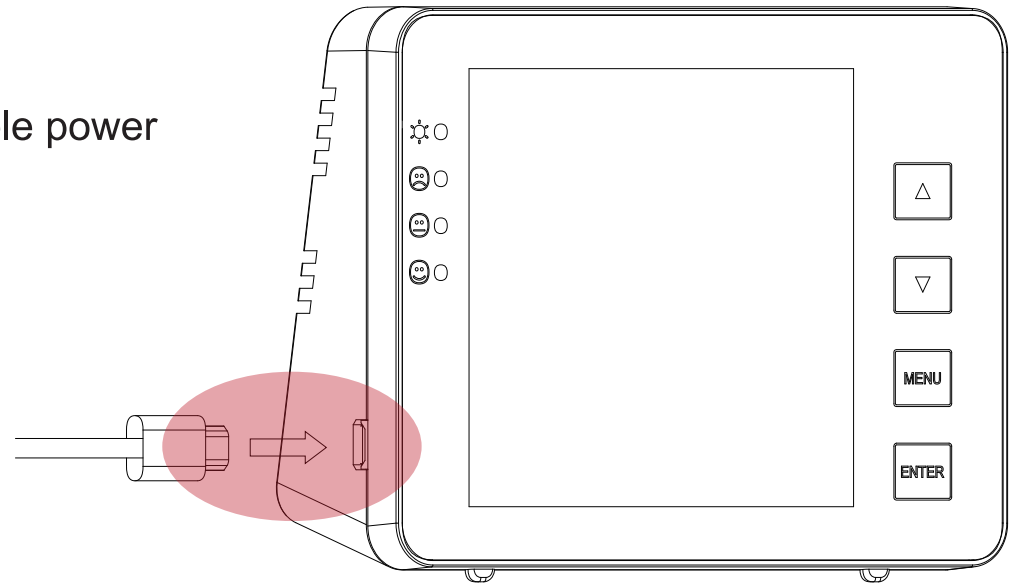
Switch off:

Switch it off if you don't use it for more than 1 week.

Power Source

Plug in USB power

When the device is ON, plug in USB cable power



Battery

Battery indicator

Low battery: steady red indicator (Charge the device within 20 minutes to avoid battery damage)

Charging: flashing red indicator

Fully charged: steady green indicator

Battery recharging

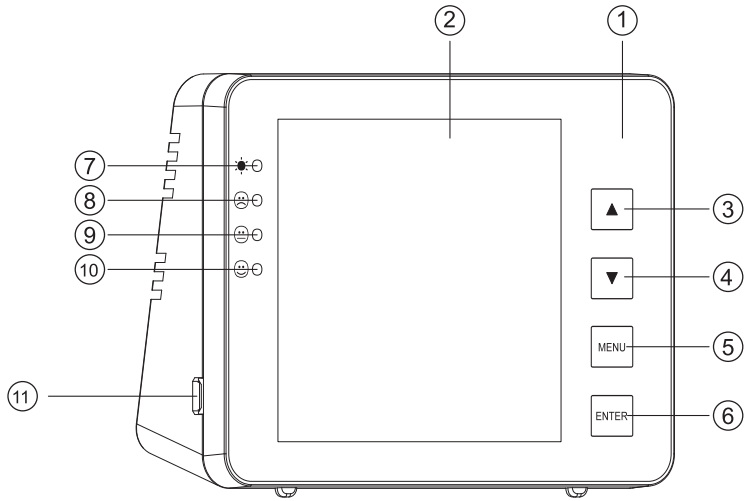
When the device is ON, plug in USB cable power

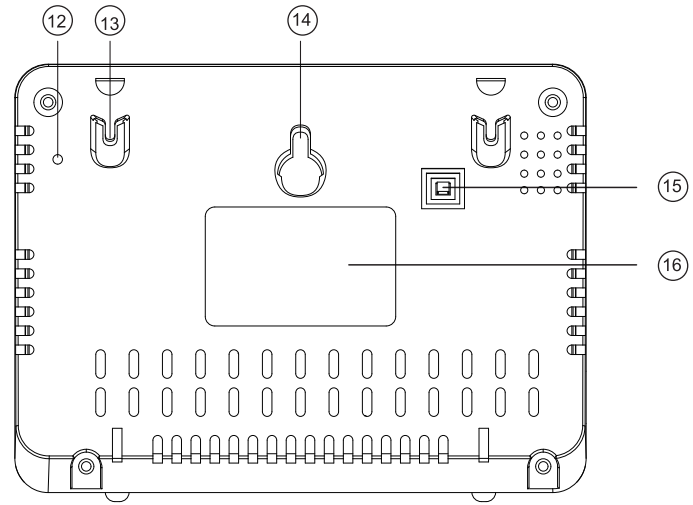
Charging time: 2.5 hours (Charge extra 30 minutes after the indicator turning from red to green)

Working time: 8-10 hours

Overview

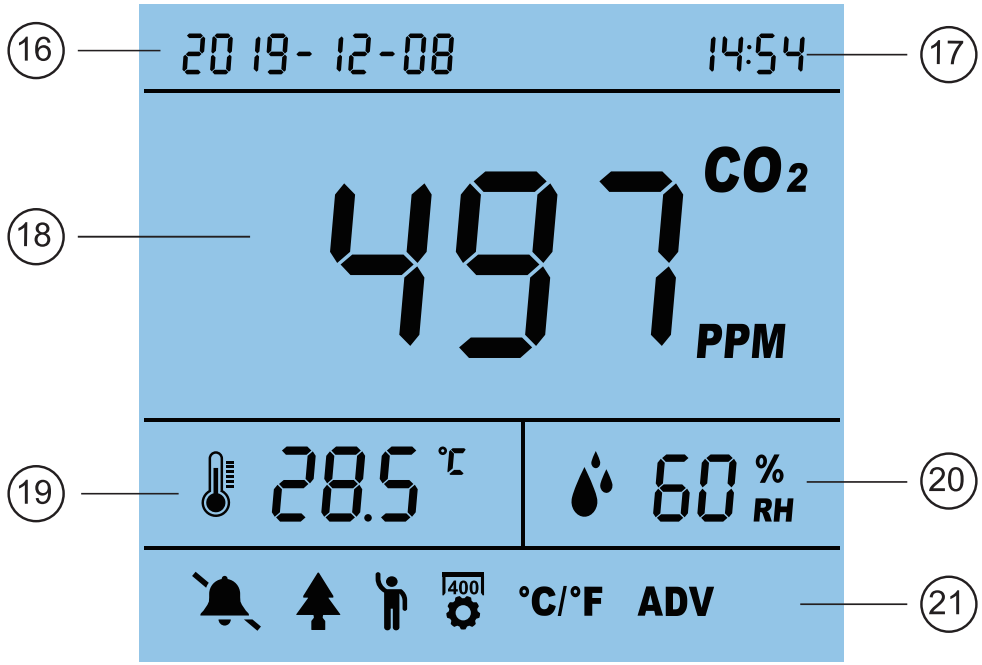
Drawing Sketch and Components List





Item	Description	Item	Description
①	Front Panel	⑨	Orange Condition Indicator
②	LCD	⑩	Green Condition Indicator
③	UP Button	⑪	USB Port
④	Down Button	⑫	Hole for Buzzer
⑤	Menu Button	⑬	Hole for Rope
⑥	Enter/OK Button	⑭	Hole for Screws
⑦	Battery Indicator	⑮	ON/OFF Switch
⑧	Red Condition Indicator	⑯	Label

LCD Display

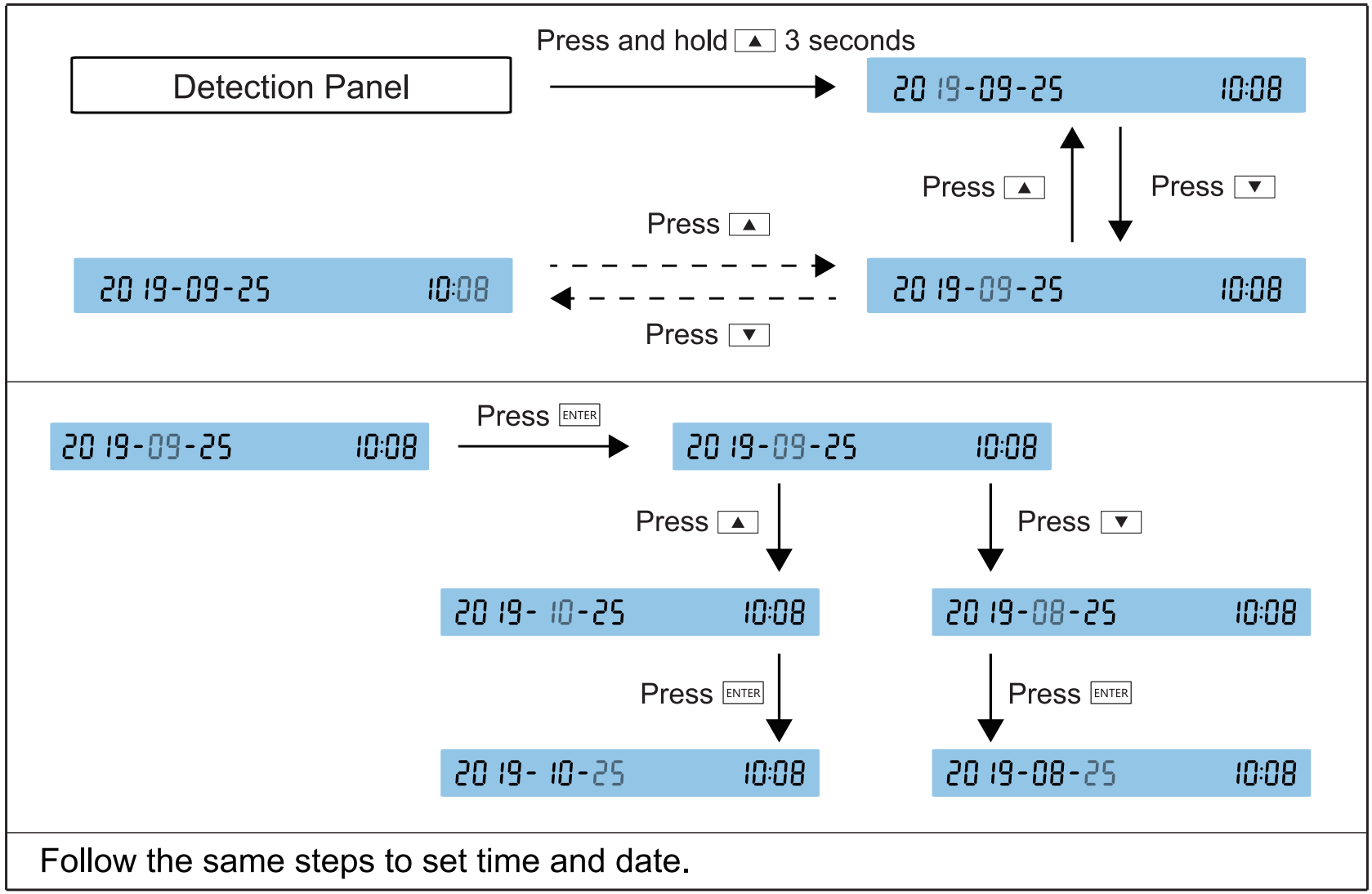


Item	Description
16	Date (Year/Month/Day)
17	Time
18	CO2 Reading
19	Temperature Reading °C/°F
20	Humidity Reading %
21	Main Menu Bar

Icon	Description	Icon	Description
	Mute		Manual Calibration
	Audible Alarm	°C	Degree Celsius
	Plant Mode	°F	Degree Fahrenheit
	Human Mode	ADV	Alarm Point Setting

Time & Date

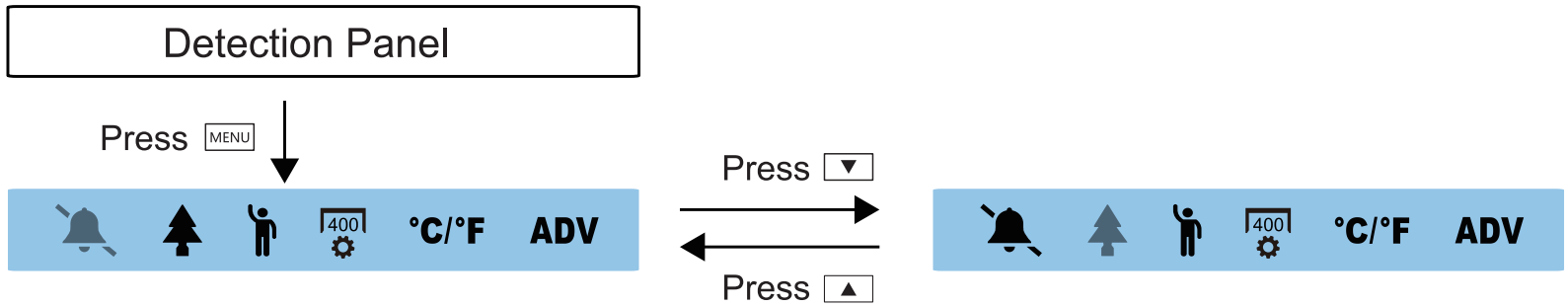
In detection panel(See Pic.1 in page 3), press and hold [▲] 3 seconds to active date and time settings.Press [▲] / [▼] to select each item.



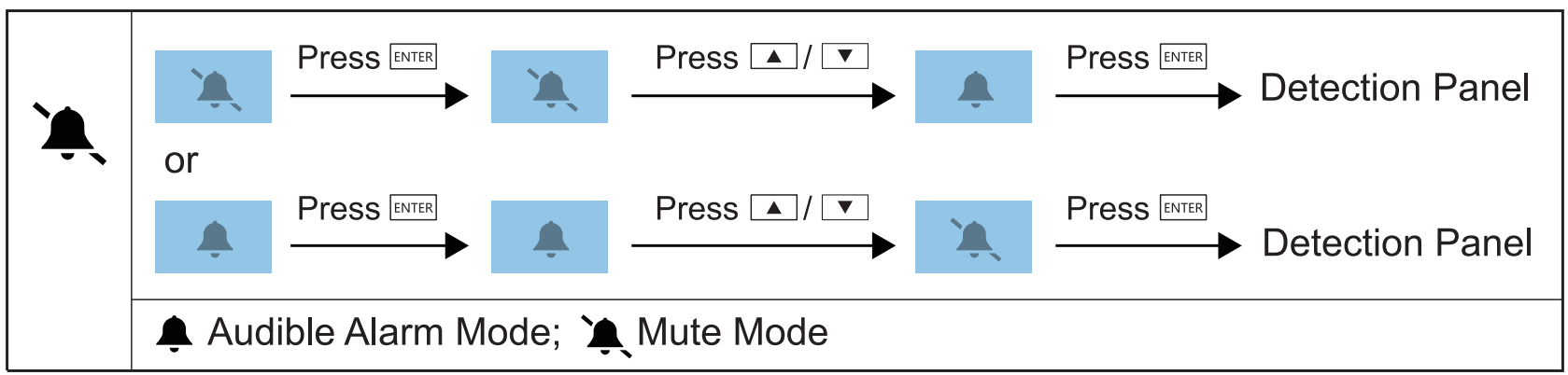
Follow the same steps to set time and date.

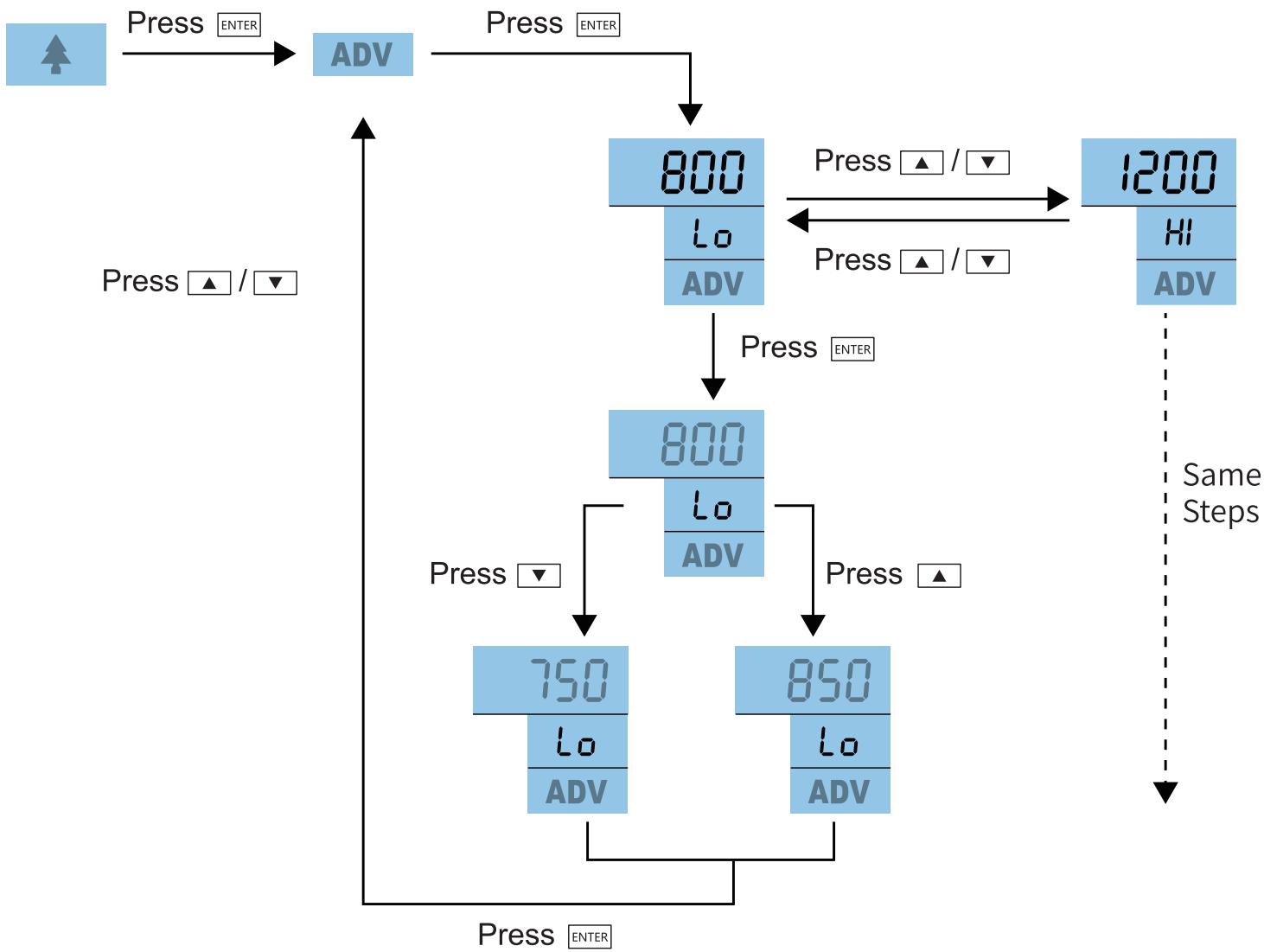
Main Menu

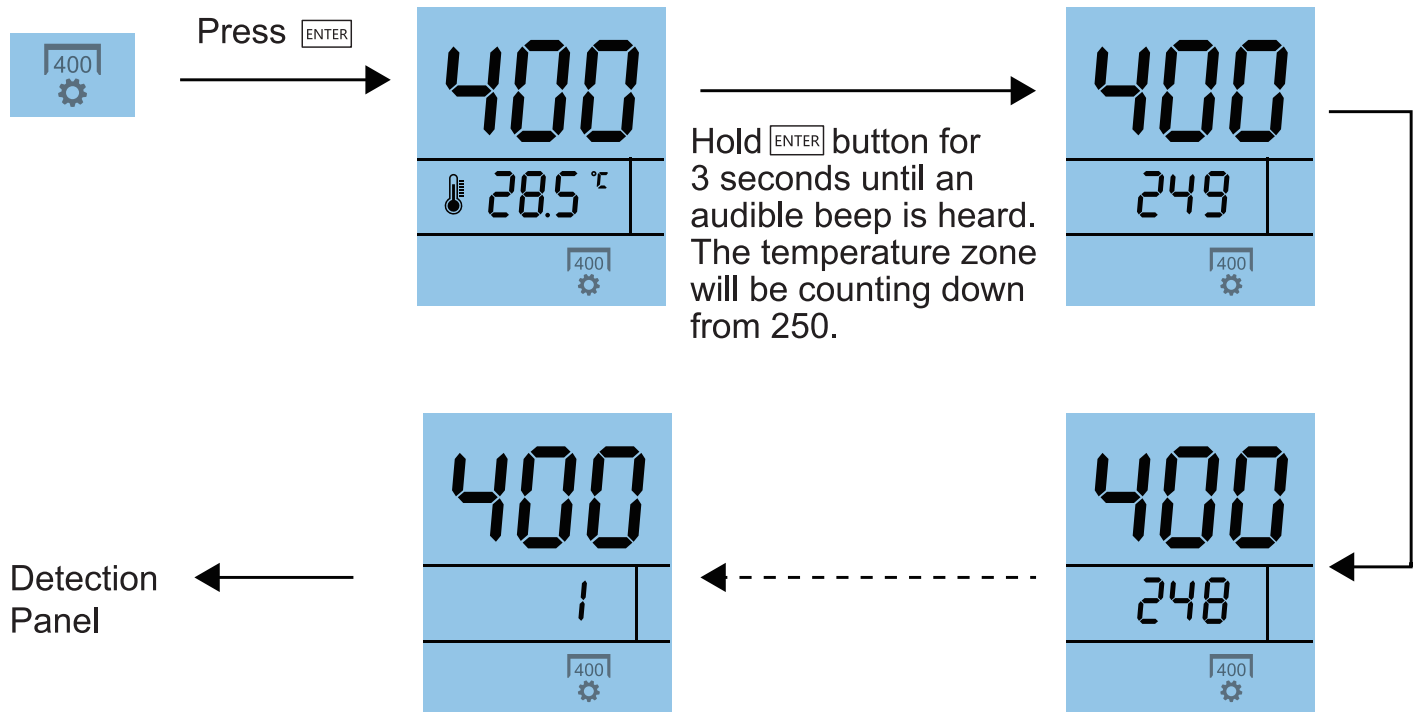
Press MENU once to active the main menu functions. Press ▲ / ▼ / MENU to bring up the main menu, with an underlining flashing bar indicating the current choice.

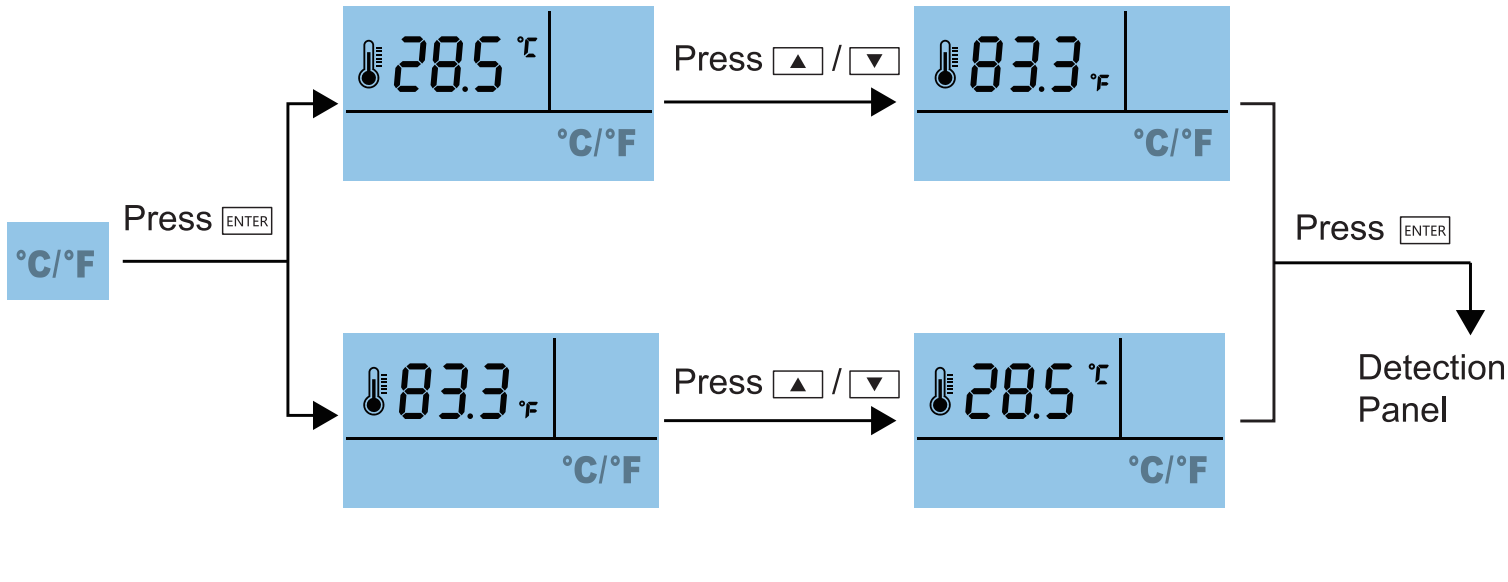


To select a certain function, press ENTER when it is underlined by the flashing bar. After the setting is completed, press ENTER to confirm and exit. Note: if no operation in 1 minute, the main menu bar will disappear and the device will revert to the normal state (Detection Panel, See Pic.1 in page 3).



Function	Description
ADV	
	High/low alarm settings for HUMAN are the same as PLANT.

Function	Description
400	
	Before calibration, run this device for at least 20 minutes with window open or in outdoor environment with backup battery to reach an atmosphere with 400ppm CO2. Wait till the CO2 reading is stable, then follow above steps for calibration.After calibration,leave it 10 minutes before normal use.

°C/°F	
	Use this function to toggle between Celsius (˚C) and Fahrenheit (˚F) for the temperature display

Specification

Typical test conditions: Ambient Temp:23±3℃, RH=50%~70%, Altitude=0~100 meters

Measurement	Specifications
Operating temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage temperature	14°F ~ 140°F (-10°C ~ 60°C)
Operating & storage RH	0-95% (non-condensing)
CO2 Measurement	
0~3000ppm	±50 ppm +5% of reading
>3000ppm	±50 ppm +7% of reading
Measuring range	0-5000 ppm
Display resolution	1ppm (0-1000); 5ppm (1000-2000); 10ppm (>2000)
Temp compensation	±0.2% of reading per ℃ (Reference of 25°C)
Response time	<2 minutes for 63% of step change or <4.6 minutes for 90% step change
Warm-up time	<20 seconds

Temperature Measurement	
Operating temperature	32~195°F (0~90°C)
Display resolution	0.1°F (0.1°C)
Response time	<20 minutes (63%)
Humidity Measurement	
Measuring range	5~95%
Accuracy	±5%
Display resolution	1% main interface display
Operating voltage	DC(5±0.25)V
Dimension	120*90*35mm
Weight	190g with backup battery