

# **MEETINSTRUMENTATIE**

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## **CO2 Measurement Indicator**



#### Features

- Simple, portable measuring indicator
- Built-in battery for charging Continuous use time after fully charging is Depending on the current consumption of the connected sensor, It may be different.
- Dot matrix type graphic LCD
- English support

#### Usage

• portable measuring instrument

#### Components

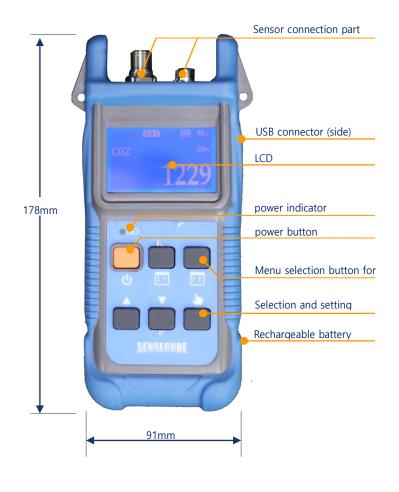
- PL100 measurement indicator
- CO2 sensor (KCD-HS100)
- USB cable for charging (C-type)
- Storage bag

## KCD-PL100-CO2

#### Standard

■Measurement	connection sensor	CO2 Sensor (KCD-HS)	
specifications	Display language	English	
	storage	-20 ~ 80℃	
■General	temperature		
specifications	Operating	0 ~ 50°C, ~95%RH (Non-conclusion	
	environment	conditions)	
■Interface	Display function	Dot matrix type graphic LCD	
	Setting function	6 button switches	
	Davisar	Lithium polymer rechargeable battery	
■electrical specifications	Power	(3.7V, 1,000mAh)	
	Charging method	USB chage (C- Type, DC5V)	
■ Size	Size	91mm x 178 mm x H42mm	
	Weight	270g	

#### Size



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#### User's Guide

#### Names and functions of each part



RS-485 connector (2 channels) Check the direction of the sensor connector and connect it. Connect a sensor for DC20V to Ch1 (left) and DC5V to Ch2 (right).

Be sure to check the sensor's operating voltage.

You can check the remaining battery level in the display

USB C-Type connector: Can be charged using a USB cable.

Data can be logged through a separate logging program.

Please refer to the separate materials regarding the SR-100 program related to data.

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Display of detection value of CO2 sensor.

Charging indicator: Indicates that it is charging, and automatically turns off when charging

Sensor settings and device version confirmation button (see 'Sensor setting method' below)

Detected value correction button (see 'Sensor correction method' below)

Power switch: Press for more than 3 seconds to turn on or off.

Button for sensor settings and detection value correction (see 'Sensor Setting Method' and 'Sensor Correction Method' below)
In addition to menu settings, the ▲ and ▼ buttons can adjust the brightness of the LCD backlight.

#### LCD display



Ch1 Address 31 <KCD-HS100> Ch2 Address 127 <No Sensor> If you press the switch for more than 3 seconds, the screen turns on. The screen displays the device firmware version.

After a while, the sensor information connected to the connector channel is displayed as shown in the picture below. Information such as the detection value of the connected sensor and battery charging status is displayed.



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## **CO2 Measurement Indicator**

#### How to check and change sensor settings

	Screen	Explanation	Key
1. Sensor connection	Channel 2 1, CONNECTION 2, SETTINGS 3, DEVICE INFO  Channel 1 1, CONNECTION 2, SETTINGS 3, DEVICE INFO		Press the button.  Press and select 1. CONNECTION and select to enter.  Press or Ato select the expected communication speed and then press to automatically search and connect.  The communication speed must have been confirmed and set at the time from the factory.  If the detected value is not displayed due to sensor change or communication speed mismatch, change and check.  press the button 1 when moving to the upper menu.
2. Address change	2, SETTINGS 1, Address 2, Baudrate  1, Address OLD ADDR,: 255 NEW ADDR,: 254	OLD ADDR : Current setting value NEW ADDR : Setting value after change	Press button 1. Press and select 2.SETTING menu, and then select 1. Address to enter by press button 1. When you reach the desired address, by press or 1. If you do not press within a certain period of time, the screen switches to the display screen.
3, Baudrate change	2.Baudrate OLD: 4800bps NEW: 4800bps	OLD ADDR : Current setting value NEW ADDR : Setting value after change	Press button 1.  Press and select 2.SETTING menu, and then select 2. Baudrate to enter by press button 4.  When you reach the desired communication speed, by press or to save it.  If you do not press within a certain period of time, the screen switches to the display screen.
4. Version check	3,DEVICE INFO KCD-HS100 Address: 31 Baudrate:38400	Check firmware information	Press button 1  Press and select 3. DEVICE INFO, and then press button to check.  The screen automatically switches to the display screen after a certain period of time.
5. LCD Brightness control		LCD Backlight brightness control	It can adjust the brightness LCD by ▲, ▼ button.  Be aware that making it brighter can increase battery consumption.

#### Note

For sensor characteristics and precautions related to the connected sensor, please refer to the data for the sensor.