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# USING CMA WIRELESS SENSORS WITH VINCILAB 2

APPENDIX FOR THE VINCILAB 2 USER GUIDE



[cma-science.nl](http://cma-science.nl)

## 1. Introduction

CMA Wireless Sensors can operate as standalone meters or can be used to transmit data to computers and mobile devices. They can also connect wirelessly via Bluetooth to the VinciLab 2 data logger.

To use this feature, update the Coach 7 App at least to version V7.0.30.



## 2. Bluetooth communication

CMA Wireless Sensors feature a Bluetooth Dual Mode Module supporting both Bluetooth® Classic (BR/EDR) and Bluetooth® Low Energy. The mode must match the device: Classic for Windows computers, Low Energy for Mac and mobile devices (Android/iOS). Since VinciLab 2 runs on Android, sensors should be set to Mobile mode. To set a sensor to Mobile mode:

1. On your VinciLab 2, open the **Settings** app and turn on Bluetooth: **Connected devices > Connection preferences > Bluetooth > On**. Do **not** pair any wireless sensors at this stage.
2. Turn on a wireless sensor.
3. Check the mode in the top-left corner of the sensor display. If it shows **Mobile**, you're ready. If it shows **PC**, you need to switch modes.
4. To switch to **Mobile** mode:
  - Turn off the sensor.
  - Press and hold the power button until **"Bluetooth mode Change Mobile"** appears.
  - Release the power button.

Each sensor has a unique Bluetooth identification code printed on the backside. This allows you to easily select and connect the correct sensor in the Coach 7 App.



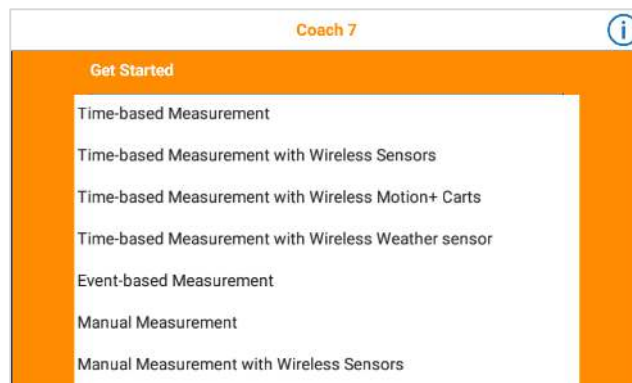
Before using CMA wireless sensors with the VinciLab 2, note the following limitations regarding connectivity and compatibility:

- CMA wireless sensors **cannot** be used via USB with the VinciLab 2.
- CMA wireless sensors **cannot** be combined with sensors connected through the VinciLab's sensor inputs or with its internal sensors.

### 3. Data Collection

**Important:** Do not pair the sensors; simply use them directly in the Coach 7 App.

- Turn on the wireless sensor(s).
- Make sure the sensor(s) are set to **Mobile** mode.
- Open the Coach 7 App.
- Tap the **Measurement** button and select an activity type for Wireless Sensors. **Important:** Wireless Motion+ Cart(s) and the Wireless Weather Sensor have their own dedicated activities.
- When opening the selected activity, the app will automatically search for wireless sensors that are turned on and in Mobile mode. Any detected Bluetooth sensors will be displayed in a list.
- From the list of detected sensors, select the one(s) you wish to connect.  
**Tip:** Verify the sensor's Bluetooth ID on its bottom label if you are unsure which sensor to select.
- Once a sensor is connected, a Bluetooth symbol will appear in the top-left corner of its display. The sensor icon(s) in Coach 7 will now display the measured values.
- You can connect up to **four wireless sensors** at the same time.
- You are now ready to begin your measurements and use the **Coach 7** software as you would with any other sensors.

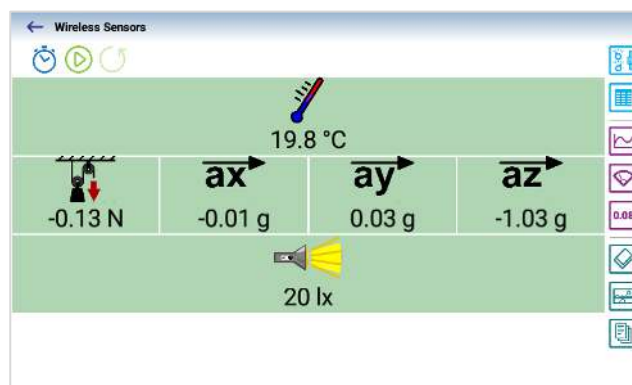


**Note:** The sampling frequency for data collection is not determined solely by the maximum Bluetooth communication rate (50 Hz for VinciLab 2), but also by the limits of each individual sensor. For example, the Temperature Sensor W56 has a maximum sampling frequency of 8 Hz. Always consult the sensor's manual to confirm its maximum sampling frequency.

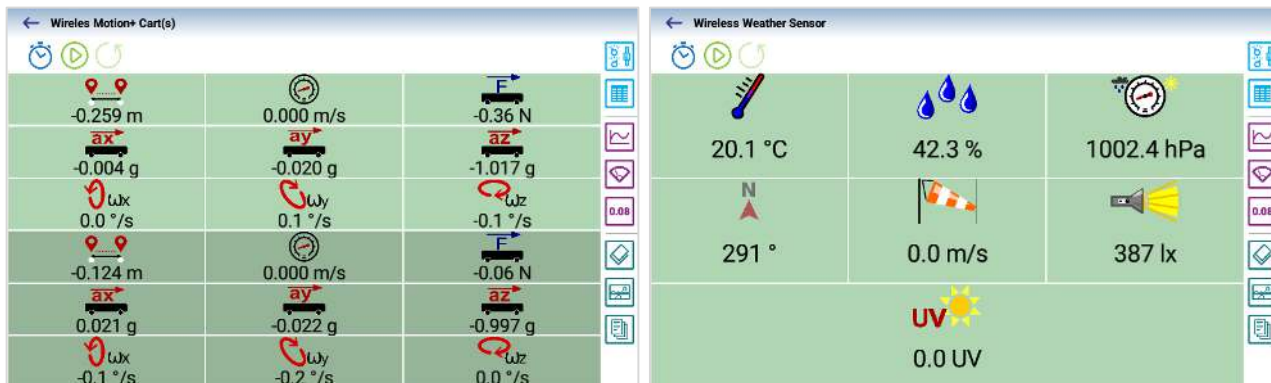
### 4. Interface panel

The Interface Panel of Wireless Sensors displays all connected wireless sensors. Like the standard sensor input panel, it shows an icon and the live readings for each connected sensor.

Tap a sensor icon to open the sensor menu, which allows you to: select the sensor input range (if multiple ranges are available), set the sensor to zero or a specific value, or remove the sensor.



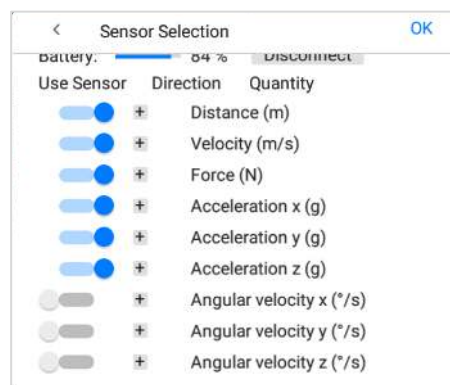
The Interface Panels for the Wireless Motion+ Cart(s) W54 (maximum 2 carts simultaneously) and the Weather Sensor W62 are slightly different. They cannot be combined with other wireless sensors and display only the built-in sensors available in these specific devices.



Left: Wireless Motion+ Carts panel  
Right: Wireless Weather sensor panel

To limit the number of sensor values displayed in the Interface Panel for these devices, right-click a sensor icon and select **Sensor Selection**. In the dialog that appears, each sensor has a switch next to its name that lets you show or hide it in the panel.

Additionally, for Motion+ Carts, you can adjust this setting for each connected cart individually. You can also use the + sign next to a sensor switch to invert the sign, selecting the opposite of the default direction.



**Note:** CMA products are intended for educational purposes only. They are not intended for industrial, medical, research, or commercial applications.

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