

# User Manual

## 0492 Sniffer (Bluetooth)

App available for free at:



### ENGLISH

#### Sniffer for LogiCO2 Safety System.



#### WARNING!

Please read these instructions carefully prior to start-up and use. These instructions should be saved for future reference and passed on to any subsequent owner. Failure to follow any of these instructions could result in bodily harm or death, and could void product warranties. LogiCO2 International AB, its affiliates and third party providers assume no responsibility for claims arising from improper or careless use or handling of its products. Retain this instruction.

#### Technical specifications

- Power supply:** 24V DC, from the alarm system
- LED Indications:** See table on page 5
- Ambient temperature:** 0 to +40°C (+32°F to +102°F)
- Cable length:** 1 x 5 m
- Dimensions (LxWxD):** 90 x 161 x 38 mm / 3,5" x 6,3" x 1,5"

#### Function

The LogiCO2-Sniffer (Sniffer) is a gateway for reading out measuring values from LogiCO2 Safety Systems. It is only possible to read-out information from the Sniffer (read only). The measuring values are sent via Bluetooth to a smartphone with the LogiCO2-Sniffer App installed. The Sniffer is connected to maximum eight sensors with or without a Central Unit. The Sniffer is monitoring the communication between the Sensor/s and the Central Unit. If no Central Unit is installed in the Safety System, the Sniffer can communicate directly with the Sensor/s.

The Bluetooth communication to smartphone is a "Broadcast Beacon". This means that no pairing between the Sniffer and the smartphone is necessary. All smartphones that have installed and is running the LogiCO2-Sniffer App will receive the measuring values from the Safety System, if they are in the transmission range of the Sniffer.

The Sniffer is power supplied from the LogiCO2 Safety System. Default setting is to read-out one Sensor (ID-number 1) that is connected to a Central Unit.

## APP - Smartphone

The LogiCO2-Sniffer App is available for both iOS and Android smartphones. Download from App Store or Google Play.

### App – functions:

- The App automatically finds the Sniffer that is within its transmission range. Just start the App and the "Search for sensor" begins (Fig. 1).
- The App is used to read the current gas concentration values at the Sensor/s. A current Sensor alarm will be shown on the smartphone App (Fig. 2).
- Log file import. The logger data is shown in as a graph and can be sent via e-mail as a .csv-file (Fig. 7-9).
- Possibility to name both the Sniffer (Fig. 3) and the connected Sensors (fig. 4). Tap the (four lines) symbol to change the name. The names are only saved in the smartphone, not in the Sniffer.

Fig. 1

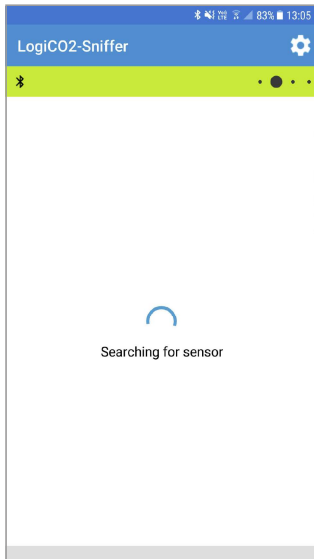


Fig. 2

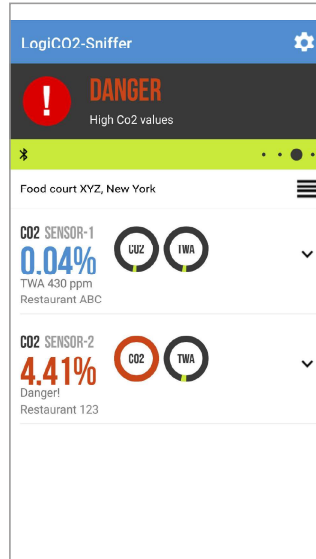


Fig. 3

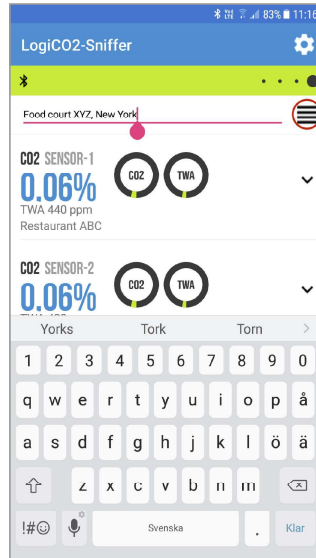
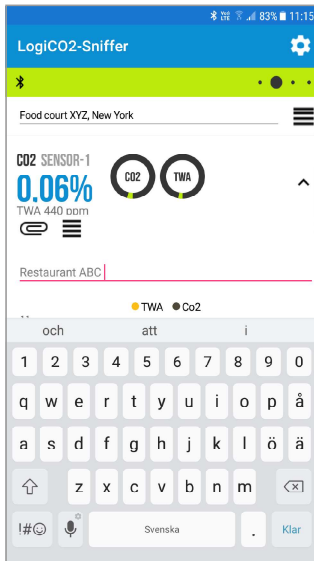


Fig. 4



## Installation

### Mounting

Place the Sniffer as close as possible to the entrance of the monitored area, so it is possible to check if it is safe to enter the area. The Bluetooth transmission range is dependent of the building structure. Before fixing the Sniffer, make a temporary mounting at the intended place. Start up the Sniffer, walk outside the entrance and check that the smartphone can receive the measuring values from the Sniffer. If not, find another mounting position.

### Setup – with or without Central Unit

The default setting of the Sniffer is to communicate with a Safety System together with a Central Unit. To change setting, push and hold the push button marked "C-U" (Fig. 10, B) for 3 seconds to select mode. Indication, green LED (Fig. 10, 2): ON = without Central unit and OFF = with Central Unit (default).

### Setup – Sensors to read-out

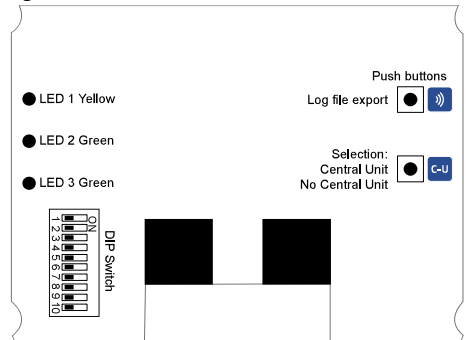
It is possible to choose which sensor (up to eight sensors) to be read-out. Default setting is to read-out one sensor with ID-setting number 1. On the printed circuit board is a DIP-switch for setting of which sensor/sensors to read-out (Fig. 5).

Example:

- To read-out sensors with ID-number 1 and 2, set the DIP-switch number 1 and 2 to ON. All other DIP-switches in OFF-position.
- To read-out sensors with ID-number 2 and 4, set the DIP-switch number 2 and 4 to ON. All other DIP-switches in OFF-position.
- To read-out eight sensors, set the DIP-switch number 1-8 to ON. All other DIP-switches in OFF-position.

## PCB Layout

Fig. 5



## DIP-switch settings

Dip 1-8 Selection of Sensor ID to monitor.

Dip 9 Not used.

Dip 10 Modbus termination resistor Normally set to OFF position.

## DIP-switch settings, Selection of Sensor ID to monitor

**Observe! Dip 1-8**

Sensor-ID to be monitored	Not monitored sensor-ID	Monitored sensor-ID
Dip 1 = ID1	OFF	ON
Dip 2 = ID2	OFF	ON
Dip 3 = ID3	OFF	ON
Dip 4 = ID4	OFF	ON
Dip 5 = ID5	OFF	ON
Dip 6 = ID6	OFF	ON
Dip 7 = ID7	OFF	ON
Dip 8 = ID8	OFF	ON

## Logger function

The Sniffer has a built-in 15 days logger memory. All measuring values are saved every 15 minutes in the logger memory. The log file can only be exported to a person that has access to the Sniffer.

### To export the log file:

- Start the LogiCO2-Sniffer App in the smartphone and tap the "arrow down" (Fig. 6) at the desired Sensor to open the graph view.
- On the Sniffer, push and hold the push button marked with a "radio wave" symbol (Fig. 10, A) for 3 seconds to enable the logger export. Both green LEDs (Fig. 10, 2 & 3) start blinking to indicate the log file export mode.
- Wait for the "arrow chasing arrow" symbol (Fig. 7) to appear in the upper right corner of the graph view and tap it to start the log file import. A red downloading symbol indicates the import (Fig. 8). The download can take a few minutes. If no log file import is activated in the smartphone App, the Sniffer returns to normal mode after one minute.
- When the download is finished, the log graph appears. The log data can be sent via e-mail as an csv-file. Tap the "paper clip" symbol to send the log data file (Fig. 9).

Fig. 6

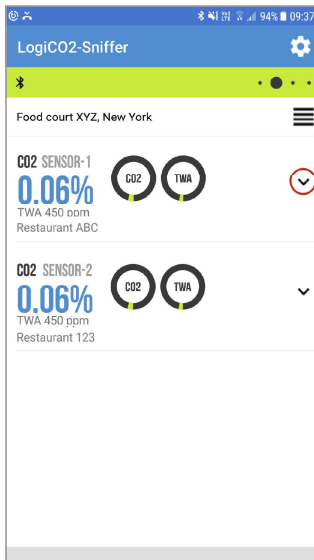


Fig. 7

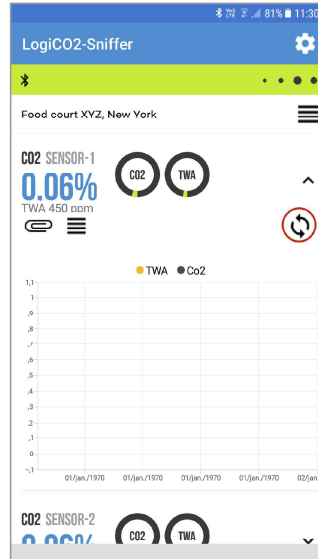


Fig. 8

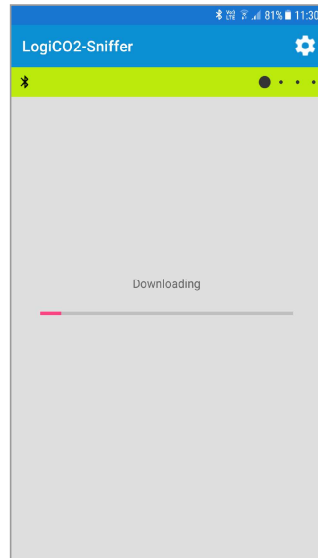
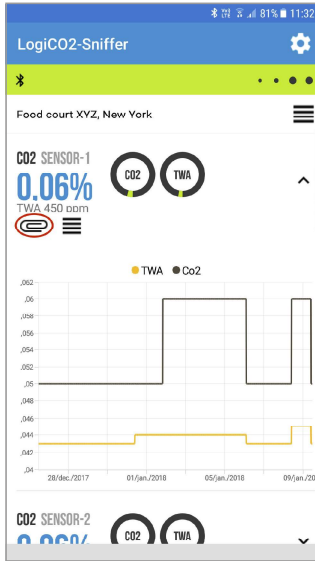


Fig. 9



## Front overlay specifications

Fig. 10



LED	Colour	ON	ON Flashing	OFF
1	Yellow	Fault	-	-
2	Green	Safety System without Central Unit	-	Safety System with Central Unit
3	Green	Operation	Communication with Safety System	No power
2+3	Green	-	Read-out log mode	-

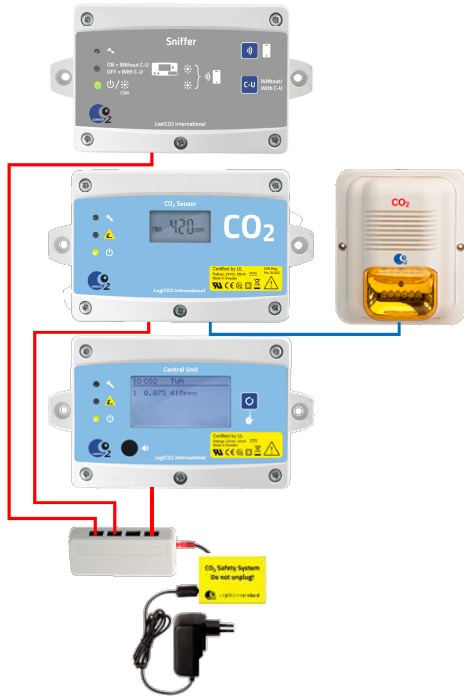
Push button	Function
A	Push and hold for 3 seconds to enable logger read-out to smartphone App.
B	Safety System with or without Central Unit. Push and hold for 3 seconds to chose mode. Indication: LED 2 ON = without Central unit, LED 2 OFF = with Central Unit.

## Maintenance

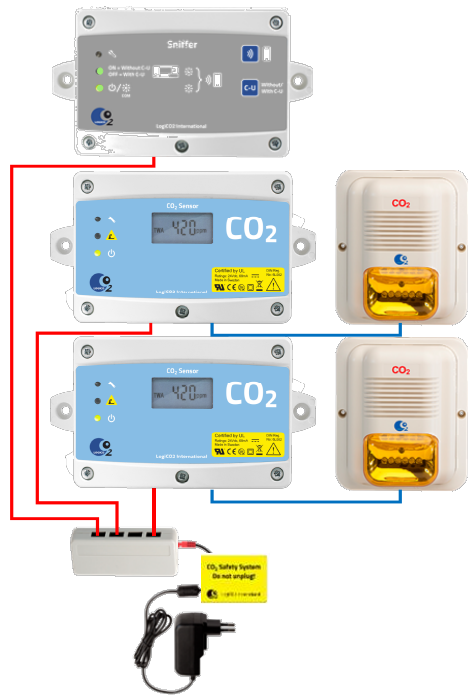
The LogiCO2-Sniffer requires no maintenance.

# System examples

## With Central Unit, one Sensor



## Without Central Unit, two Sensors



## Important

All persons responsible for the use and maintenance of this equipment must read and understand the safety and operating information contained in this guide. Installation and service of this equipment should be performed only by professionals. The function of the equipment will be impaired if it is not properly installed.

### **Important information regarding third party products**

The functionality of LogiCO2's products are only warranted if connected to LogiCO2's systems and products. LogiCO2 is not liable for the functionality of any systems if LogiCO2 components or parts are connected to third party products. LogiCO2 permits its products to be connected to external relays controlling ventilation and valves as well as fire alarm panels and building management systems.

Subject to typographical errors and change without prior notice.



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