

# WM868-CO2

## USAGE

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The wireless sensor is designed to measure the concentration of carbon dioxide in the air and to transmit the measured values by radio.

## UNIT DESCRIPTION

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The sensor measures the concentration of carbon dioxide in the air at intervals of 15 seconds, displays the current value of methane concentration on the LCD display, and sends information messages with the measured values in the form of radio messages at set intervals.

## TECHNICAL PARAMETERS

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### Wireless interface

- Frequency Band: 868.0 - 868.6 MHz
- Wireless Technology: WACO 868
- Protocols: WACO
- Modulation: GFSK
- Channel Width: 100 kHz
- Transmission Power: 10-25 mW
- Receiver Sensitivity: WACO -114 dBm
- Data Rate: WACO 38400 bps
- Output Impedance: 50  $\Omega$
- Antenna: external, SMA-female connector

### CO2 concentration measurement

- Measure CO2 concentration range: 0 - 10 000 ppm
- CO2 concentration measure accuracy: 0.03

### Power

- Power supply: DC 5V
- Maximum current: 100 mA
- Connector: mini USB

## Physical Properties

- Length: 70 mm
- Width: 70 mm
- Height: 27 mm
- Weight: 220 g

## Operating Conditions

- Operating Temperatures: (-20 to +50) °C
- Storage Temperatures: (0 to +40) °C
- Relative Humidity: 90% (non-condensing)
- IP Rating: IP20

## UART configuration

- UART Data Rate: 9.6 kbps
- Transmission method: Asynchronous
- UART parameters: 8 data bits, 1 stop bit, no parity
- Voltage Level: 3.6 V (CMOS)