

THE CO₂ TRAFFIC LIGHT FOR MONITOR AIR QUALITY IN ENCLOSED CLOSED SPACES.

The CO₂ traffic light is a set of traffic lights (green/orange, red) with CO₂ determination for closed spaces: offices, conference rooms, classrooms, restaurants, stores, medical practices, and all other public buildings..

It measures and warns when there is too much CO₂ in the air and clearly indicates when ventilation is required to minimize the risk of transmission of COVID-19.

A high concentration of CO₂ in the room can be linked to an increase in bacterial concentration as well as an increase in infection and absence rates.

To protect all persons staying for a long time in a closed space, the High Council of Public Health (HCSP) recommends a ventilation from 800 ppm (ppm = parts per million, that is to say volumes per million parts). The three-colored traffic light is very intuitive and simple to understand:



USER NOTIFICATION:



Red light : Above 1200 ppm CO₂
Ventilation is required until the light turns green again. If the CO₂ concentration is above 2,000 ppm, the red light flashes to indicate a health hazard.

Yellow light : Between 800 and 1200 ppm CO₂
Ventilation is required.

Green light : Less than 800 ppm CO₂
No ventilation required

The kit consists of:

- a light column with CO₂ determination
- a 230 V power supply unit

TECHNICAL CHARACTERISTICS :

- Dimensions :** 287 x ø 70 mm + 1500 mm cable length
- Weight :** 591g (without packaging), 856g (with packaging)
- Materials :** PA, PC, PC/ABS
- Sensor type :** Non-dispersive infrared technology (NDIR)
- Color :** Yellow, red, green (cap), black (case)
- Temperature :** +10 à +35 °C
- Alarms :** Visual (Green, Yellow, Red LEDs)
- Tests :** Automatic calibration when connected
- Electrical data (operation) :** 230 V, AC, 50 Hz
- Electrical data (nominal) :** 230 VAC, 40 mA
- Degree of protection :** IP20
- Protection class :** Class 2
- Degree of pollution :** 2
- Isolation voltage :** U_i = 250 V ; U_{imp} = 2 500V
- Warranty :** 2 years

GOOD PRACTICES :

Ideally, the CO₂ warning light should be placed in the center of the room, i.e. not too close to the window and within 2 meters of the floor. Since carbon dioxide is distributed fairly evenly throughout the room, one signal light is sufficient for most rooms. Two signal lights are recommended for large conference rooms or sports halls.

