

still subject to design change

- ❑ Climate control of plant
- ❑ Measurement techniques Dual Wavelength NDIR
- ❑ Range 0...2000 ppm CO₂
- ❑ Ad in 6 steps over LED green-yellow-red
- ❑ Outputsignal 0/4...20 mA or 0...10 V
- ❑ Wall housing for mounting on flush-mounting box
- ❑ Supply voltage 24 Vac or 24 Vdc

The CO₂ monitor CM2 is used to monitor indoor air quality. The breath of man contains a considerable proportion of CO₂ when you exhale, so that in the presence of people in an area of CO₂ in the air slowly rises, leading to fatigue and loss of concentration.

The CO₂ content of pure air is currently at approximately 350 ppm. The CO₂ monitor CM2 allowing for an increase of CO₂ content a needs airing either manually or automatically via the visual display of the analog output signal.

Application

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Description

The measurement of CO₂ content is based on the dual wavelength NDIR method. An infrared emitter emits light in a cuvette of two adjacent wavelengths on a receiver. CO₂ is located in the beam path, is the characteristic wavelength of the CO₂ weakened and provides a signal for the evaluation.

The evaluation provides an output signal of 0/4...20 mA corresponding 0...2000 ppm CO₂.

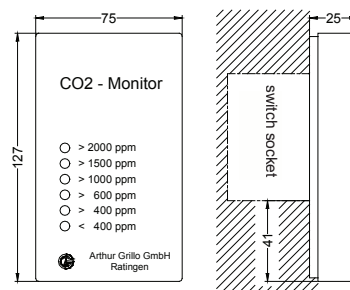
Furthermore, in the front cover of the unit, the CO₂ content visually displayed on a 6-segment LED display in the colors green, yellow and red.

The electronics is in a white plastic case mounted for wall mounting. The case can also be mounted on a flush-mounted box. The device is powered with 24 Vac or 24 Vdc.

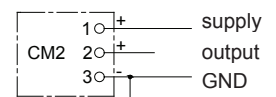
Specifications

range:	0...2000 ppm CO ₂
measuring methode:	Dual Wavelength NDI
response time (t63):	< 30 s
time interval measurements:	1,5 s
optical display:	6 LED
	< 400 ppm green 1
	> 400 ppm green 2
	> 600 ppm yello 1
	> 1000 ppm yello 2
	> 1500 ppm red 1
	> 2000 ppm red 2
outputssignal:	0/4...20 mA, max. burden 500 Ω or 0...10 V
supply voltage:	24 Vac or 24 Vdc
	current consumption approx. 100 mA
case:	plastic, white, wall mounting or mounting on a switch box
	dimensions 75 x 127 x 25 mm (w x h x d)
ambient temperature:	0...50 °C
rel. humidity:	0...80 %, no condensation
tolerancy:	± 4 % v.E. + 3 % v.M.

physical dimensions



connection switching



Order-No.	Price €
7420	230,00

CO₂-Monitor CM2 for monitoring the CO₂ concentration in rooms

range: 0...2000 ppm CO₂, optical display with 6 LED

outputssignal: -please specify-

supply voltage: 24 Vac or 24 Vdc

case: plastic, white, for wall mounting or mounting on a switch box 75 x 127 x 25 mm (w x h x d)