

Infrared measuring system for CO₂

ZMF-100-IR-LC

Specification

features

- output/range: 4...20 mA / 0..3000 ppm
- supply voltage: 24 V DC / 100 mA
- technology: infrared absorption measuring

- heating time: ca. 5 min
- response time: ca. 30 sec
- accuracy: +/- 2%
- case: plastic housing (IP20)
- weight: ca. 150g

advantage

- excellent long time stability, ruggedness and attractive price performance relationship
- wearfree (Life time 5 years)
- little sensitiveness opposite outer influences, like air pressure fluctuations and vibrations

basics

- Carbon dioxide is a gaseous component of the earth's atmosphere and is breathed out by the man. The CO₂ concentration applies to the quality of room air as an important indicator.

Measuring principle

- NDIR - Not Dispersive Infrared-Absorptionmeasuring
- Frequency range: 427 / 435 nm

Operating Conditions:

- operating temperature: 0...+40 °C
- temperature area: -40...+100 °C
- relative humidity: 10..95 %

ZMF-100 IR LC



Applications

- Climate measuring systems
- Ventilation controls
- Environmental supervision
- Radiator and cold technology
- Work- and Fireprotection

- CO₂ Concentrations:
 - 200 - 400 ppm - fresh, natural surroundings air
 - 900-1000 ppm - limiting value for room air
 - >1000 ppm - Start of concentration weakness

Technical Data

Dimensions (mm)

Case dimensions

Length: 80 mm

Breadth: 80 mm

Height: 40 mm

