

CO2 sensor

CO2 transmitter for harsh and humid environments

- Measure carbon dioxide concentration
- For test benches operating CO2 refrigerant (R744)
- Leakage and safety monitoring
- Developed for industrial applications
- Interchangeable probes for easy maintenance
- Direct connection to SENS modules



Device	
Voltage supply	11 ... 20 VDC or 18 ... 30 VDC
Power consumption, typical	2.5 W
Working temperature range	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature range	-30 ... 70 °C (-22 ... 158 °F)
IP-Code	IP 65 (ISO 20653 - 2013)
Relative humidity	0 ... 100 % (non-condensing)
Dimensions	L109 mm x Ø 18 mm (4.29 in x 0.73 in)
Weight	GMM221 180 g (0.40 lb) (w/2m cable)
Weight	GMM222 200 g (0.44 lb) (w/2m cable)
Housing material	Polycarbonat (PC)
Measurement CO2	
Operating pressure	700 ... 1300 hPa
Non-linearity	±0.5 % FS (Full scale)
Temperature dependence, typical	-0.3 % of reading / °C
Pressure dependence, typical	+0.15 % of reading / hPa
Measurement range in %	0 ... 2 / 0 ... 3 / 0 ... 5 / 0 ... 10 / 0 ... 20 %
Accuracy at ambient temperature 25 °C @ 1013 hPa	±1.5 % of range + 2 % of reading (for concentration > 2% FS)
Response time (63%)	20 seconds
Measurement range in ppm	0 ... 2000 / 0 ... 3000 / 0 ... 5000 / 0 ... 7000 / 0 ... 10000 ppm
Accuracy at ambient temperature 25 °C @1013 hPa	±1.5 % of range + 2 % of reading (for concentration > 2% FS)
Response time (63%)	30 seconds
Analog output resolution	12 bit
Analog output ranges in mA	0 ... 20 / 4 ... 20 mA
External load	Max. 200 Ω
Analog output ranges in V	0 ... 1 / 0 ... 2 / 0 ... 2.5 / 0 ... 5 V

External load

Min. 1000 Ω