

MicroSENSE CO₂ Sensor

MH-100 MicroSENS IR Incubator CO₂ Sensor



- + Clean in place: heat-sterilization up to 190°C
- + Simple field calibration at required protocols from 0-20%
- + Temperature, pressure and humidity correction built-in
- + Self-test status continuously reported during operation
- + Metal head designed to Pharma + Lab Standards
- + Infrared dual beam CO₂ sensor for accuracy and long-life

Measuring gas	CO ₂ - IR
Measurement range	0 – 20 Vol.-%
Gas supply	Diffusion
Warm up time	< 1 minute (start-up) < 15 minutes (full spec)
Accuracy ¹	± 0,2 Vol.-% ± 2 % of reading
Response time (t ₉₀)	≤ 30 s
Digital resolution	0,001 Vol.-%
Temperature dependence ²	≤ ± 0,1 Vol.-%
Pressure dependence ³	≤ ± 0,05 Vol.-%
Long term stability ⁴	≤ ± 0,2 Vol.-% at 5 Vol.-% / year
Humidity correction	0 ... 200 hPa H ₂ O
Supply voltage	12 – 24 VDC
Power consumption	< 2 W
Digital output	RS232, Micro-Hybrid industrial protocol
Analogue output	4 – 20 mA
Operating temperature	0° C ... 60° C
Humidity	< 100 % relative humidity (rH), not condensing
Storage temperature	-25° C ... 85° C
Maximum temperature for heat sterilization (only sensor) ⁵	190° C

Order Reference
MH-100-CO₂

- ¹ at 37° C, 1013 hPa, dry test gas, excludes calibration gas tolerance of ± 1 %
² with compensation at 1 Vol.% ... 20 Vol.% CO₂ and 20° C ... 60° C, 1013 hPa
³ with compensation at 600 – 1200 hPa, 37° C and 5 Vol.-% CO₂
⁴ stability at 37° C, without heat sterilization
⁵ maximum humidity ≤ 1 % rH, ≥ 85° C auto standby – no CO₂ measurement

