

Your additional equipment.

CO₂-Dosing and Control System for concentrations from 1 – 5 Vol.-% CO₂



Suction of measuring gas



Sensor with gas-processing

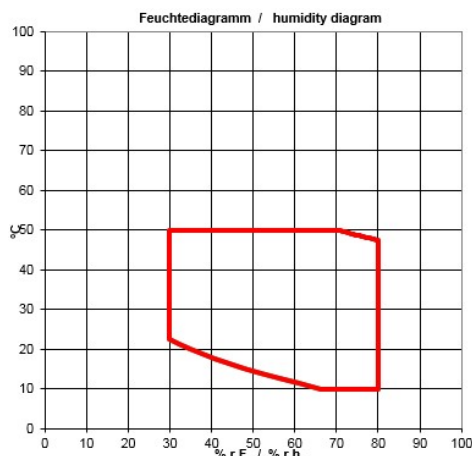


Door lock

For dosing and control of the CO₂ in the test cabinet with CO₂– concentrations above the ambient concentration of CO₂.

Technical data

Temperature range	from +10 °C to +50 °C
Climatic range	from 30 % r. h. to 80 % r. h.
Dew point range	from +4 °C to +43 °C



Measurement and display range*	from 0 to 10 Vol.-%
Digital resolution*	0.02 Vol.-%
Repeatability*	≤±0.1 Vol.-%
Response time*	≤ 4 seconds
Long term drift*	≤ 0.03 Vol.-% after 12 months

*Note: reference temperature is +25 °C

Dosing characteristics

Adjustable concentration range	from 1 to 5 Vol.-%
Accuracy	±1.5 % from measurement value and ±1.0 % from terminal value

Scope of delivery

- Entry port in the ceiling for suction of the measuring gas.
- Gas detection sensor for measuring of (CO₂) gas concentration, with gas suction system and evaluating unit
- CO₂-Dosing system
- Flushing with pressurized air
- Special pressure balance
- Electrical door lock (only active while dosing of CO₂)
- Digital Display of CO₂ – concentration on the touch panel

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Pressure balance

- Measurement processing and dosing by the control of the basic chamber
- Function test, test run and commissioning at our factory in Balingen
- Documentation

Notes

- The dosing is only active, when the door switch indicates, that the door is closed.
- The operator has to ensure that a.m. measures are adequate for the foreseen purpose and also are adequate to provide adequate risk management.
- Carbon dioxide (CO₂ – Gas) suppresses oxygen and matures at the floor because of its specific weight. There is danger of suffocation.
- Therefore, the operator has to follow the safety regulations.
- The enabling of the CO₂-supply is only within the given temperature and climatic range possible.
- At tests exceeding the given range, the suction of the measuring gas has to be locked air tight.

To be provided at customer's site

- CO₂ gas supply with pressure reducer, 2 - 6 bar overpressure, incl. overpressure safety device with 7 bar
 - CO₂ gas temperature ≥ 10 °C, consumption max 2.5 m³/h
 - Connection with 10 x 1 mm Swagelock
- compressed air connection with 6 to 12 bar overpressure
 - Consumption max. 6 m³/h
 - Connection with quick coupler DN 7.2
 - Firm contamination according to class 2: max. particle size 1 μ m
 - Compressed gas temperature +2 °C to +50 °C
 - Total oil content (liquid & gaseous) ≤ 0.01 mg/m³
 - Compressed air quality according to ISO 8573-1
- Safe disposal of exhaust air by connection to customer's ventilation system with draft diverter.