

Climate Control Sensor (CCS)

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Applications

- Climate control in HVAC recirculation mode
- Optimization of HVAC efficiency and comfort
- Leak detection in R744 A/C Systems

Features

- Robust spectroscopic sensor concept for CO₂
- Air-temperature and humidity measurement (optional)

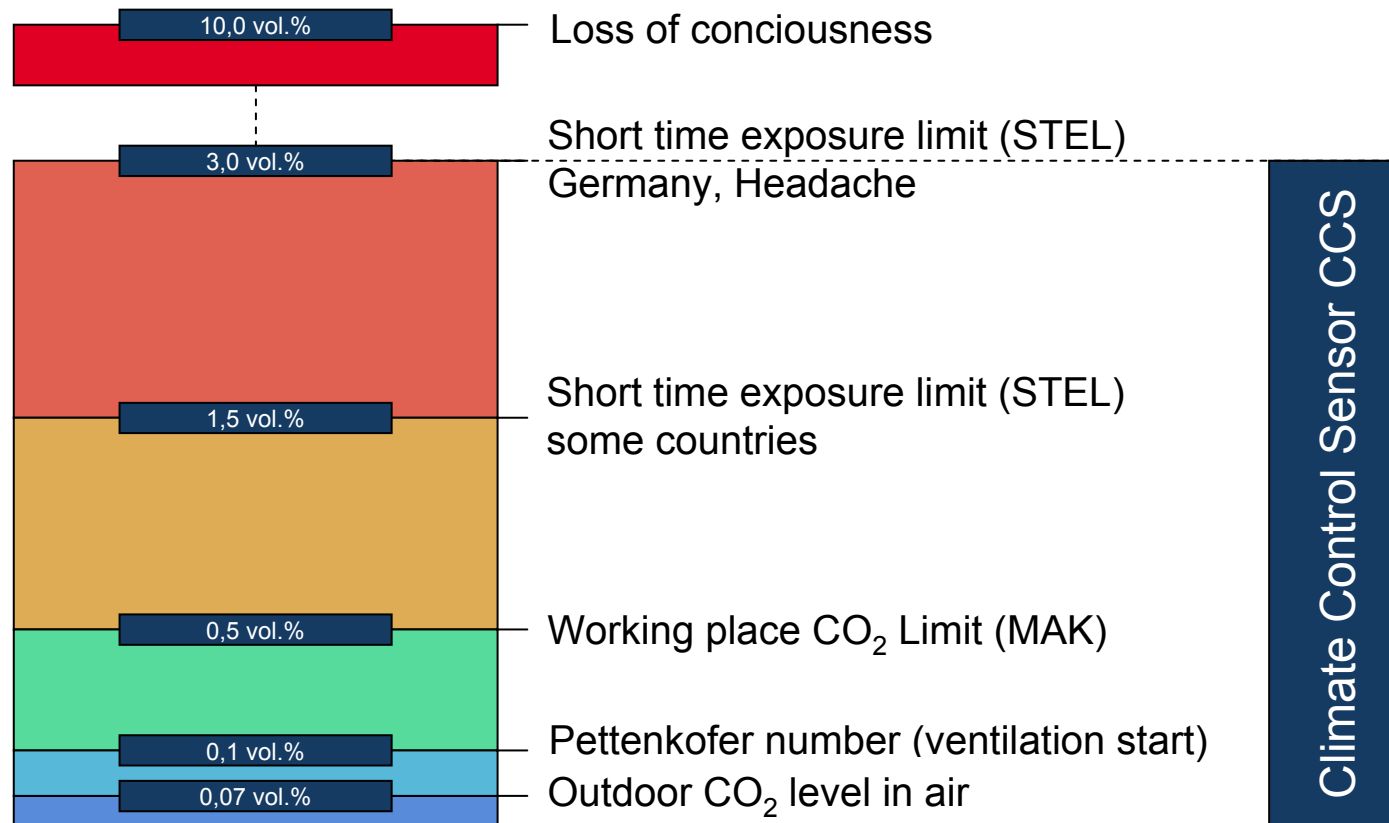
Customer Benefit

- Fast and reliable detection of elevated CO₂ levels
- Reduction of HVAC power consumption
- Monitoring and controlling of air quality
- Occupancy detection, Hold-up detection



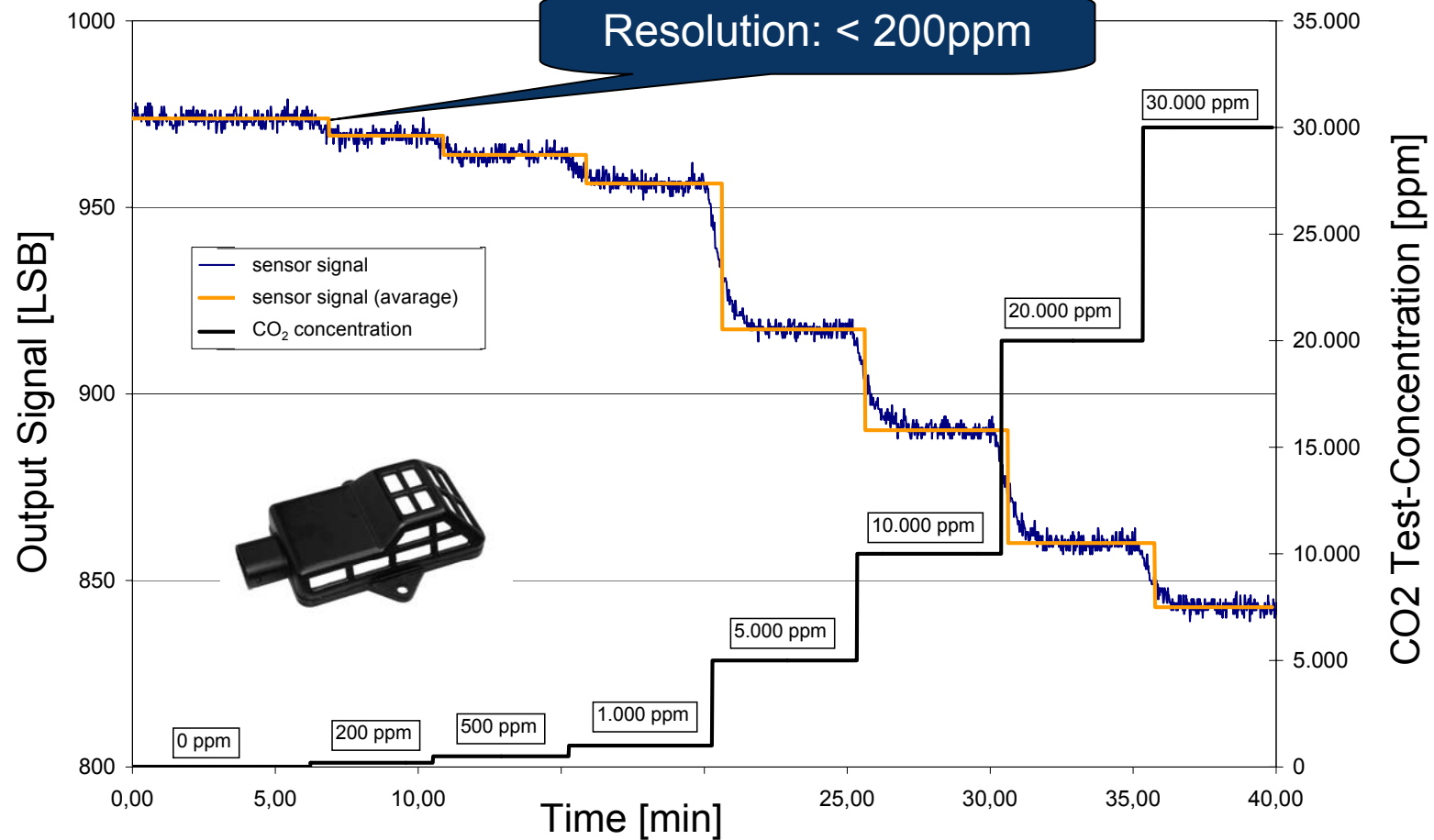
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Effects of Carbon Dioxide



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Sample - Performance



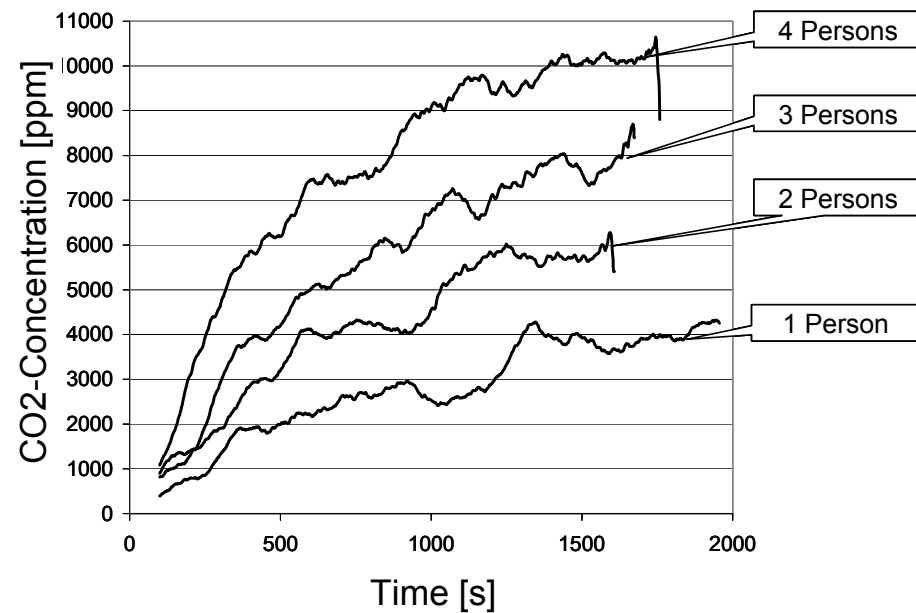
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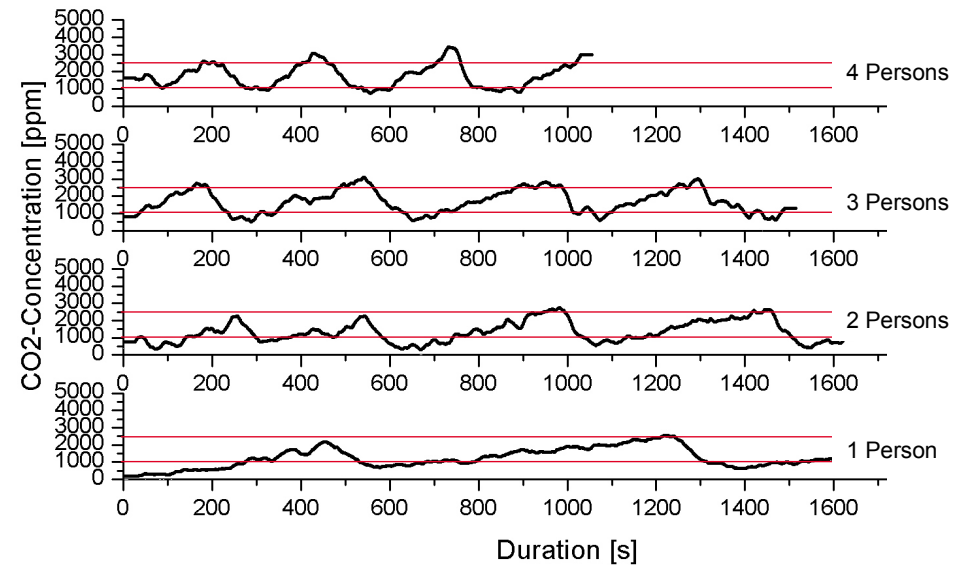
CO₂ Concentration in Recirculation Mode



Result: CO₂ exceeds comfort and safety levels !

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CO₂ Concentration in Recirculation Mode



Threshold: 1000ppm/2500ppm (10sec)

Result: Controlled CO₂ level within comfort range !

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The BOSCH Climate Control Sensor

Present Sample Status



The Bosch Climate Control Sensor (CCS) is dedicated to

- ensure a comfortable climate especially in recirculation mode.
- reliably supervise the CO₂ level by a robust sensor principle.
- provide additional safety features for future Air Condition applications.

Samples, Visualization Software and Application-Support available !

Automotive Electronics

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Contact

Sales: Mr. Marco Wolz

Robert Bosch GmbH, AE/VKF2
Tuebingerstr. 123
D-72762 Reutlingen
phone: +49-7121-35-6651
e-mail: marco.wolz@de.bosch.com



Technical: Dr. Maximilian Sauer

Robert Bosch GmbH, AE/SPE2
Tuebingerstr. 123
D-72762 Reutlingen
phone: +49-7121-35-30413
e-mail: maximilian.sauer@de.bosch.com

