

Supplementary Materials

Modular Breath Analyzer (MBA): Introduction of a breath analyzer platform based on an innovative and unique, modular eNose concept for breath diagnostics and utilization of calibration transfer methods in breath analysis studies.

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Table of Content

Figure S1. Internal view with description of the three main units of the Modular Breath Analyzer (MBA) platform for laboratory and clinical use.

Table S1. List of integrated analog sensors, number of obtained signals from each sensor and used heater voltages (adapted with permission from Jaeschke et al. [1] Copyright 2018 by the authors).

Table S2. List of integrated digital sensors, number of obtained signals from each sensor and used heater voltages (adapted with permission from Jaeschke et al. [1] Copyright 2018 by the authors).

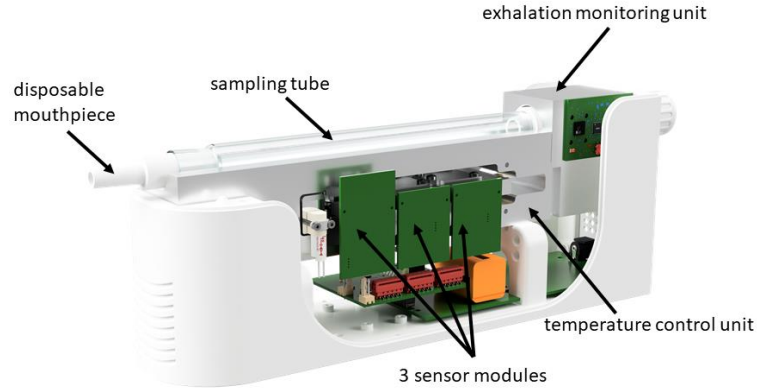


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Sensor type	Nr. of incorporated sensors	Sensor output signals	Heater voltage [V]	References
MICS 6814	1	3	NH ₃ : 2.2 red: 2.4 ox: 1.7	[2]
MICS 4514	1	2	red: 2.4 ox: 1.7	[3]
TGS 8100	1	1	1.8	[4]
CCS 801	2	1	1.8	[5]

Table S2. List of integrated digital sensors, number of obtained signals from each sensor and used heater voltages (adapted with permission from Jaeschke et al. [1] Copyright 2018 by the authors).

Sensor type	Num of incorporated sensors	Sensor output signals	Applied supply voltage [V]	Applied temp mode	References
CCS 811	2	1	1.8	-	[6]
SGP30	2	2	1.8	-	[7]
ZMOD 4410	2	3*	1.8	Ramp and Flat	[8]
BME 680	2	4**	1.8	-	[9]

*controlled via Firmware (e.g. ramps), ** temperature, humidity, pressure and VOC

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