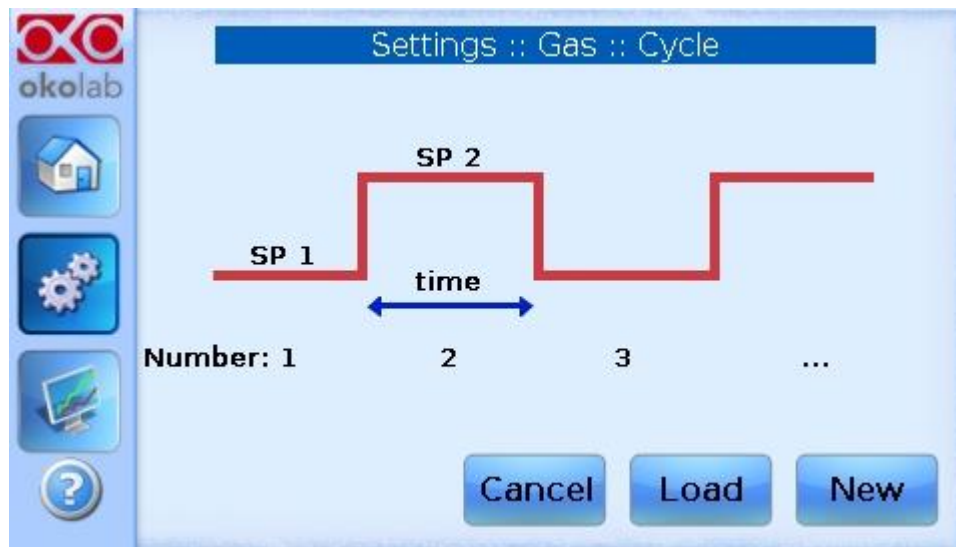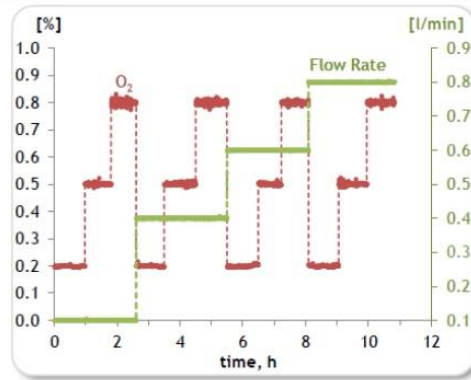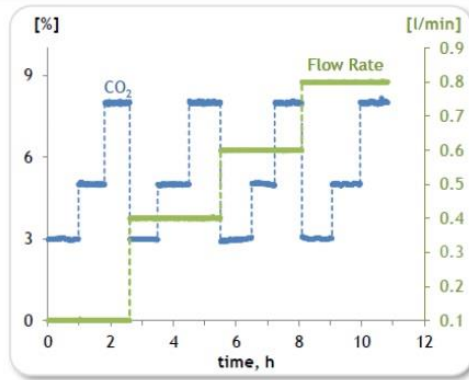# CO2-O2 Unit-BL [0-10; 0-1]

CO2-O2 Unit-BL [0-10; 0-1] connects to any Bold Line Temperature Controller and is operated by the touch screen interface OKO-TOUCH.

- Adds CO2 and Air to N2

- **CO_2 range**: 0-10%; **O_2 range**: 0-1.0%
- **CO_2 Accuracy**: ± 0.1
- **O_2 Accuracy**: ± 0.02% at 1% O_2 after sensor calibration against a span gas with an Oxygen level within the range 0.5-1%. Okolab advises to use a calibration gas with accuracy of 2% of Oxygen concentration or higher.
- Set Point Resolution: 0.1%; Oxygen Reading Resolution: 0.01%; CO2 repeatability: better than 0.1%; O2 repeatability 0.01% of O2

- Output flow rate: 0 - 0.8 Nl/min. Outlet Pressure: ambient

- CO_2 sensor: 10 year-life Non Dispersive InfraRed (NDIR) dual wave length detector
- O2 sensor: 9-12 Months –life electrochemical sensor

- Sensors calibration routine with external meter or calibration gas

- Compatible with OKO-AIR-PUMP-BL for operation with background air

- Compatible with **HM-ACTIVE**
- Compatible with Smart Box for data logging and remore operation

- Programmable CO_2 and / or O_2 cycles
- SDK available for integration in third party software
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PROGRAMMABLE CO2 AND OR O2 CYCLES

Total flow rate	CO₂ set point	Mean	Max	Min	Std
	3.0	2.99	3.04	2.93	0.02
0.1	5.0	5.00	5.09	4.96	0.02
	8.0	7.99	8.05	7.92	0.02
	3.0	2.99	3.01	2.96	0.01
0.4	5.0	5.00	5.04	4.95	0.02
	8.0	8.00	8.37	7.93	0.04
	3.0	3.02	3.08	2.95	0.04
0.6	5.0	5.01	5.08	4.95	0.03
	8.0	7.98	8.08	7.79	0.03
	3.0	3.00	3.03	2.96	0.02
0.8	5.0	5.01	5.06	4.96	0.02
	8.0	8.01	8.17	7.93	0.04

Total flow rate	O₂ set point	Mean	Max	Min	Std
	0.2	0.199	0.21	0.19	0.002
0.1	0.5	0.501	0.52	0.47	0.004
	0.8	0.800	0.85	0.73	0.011
	0.2	0.200	0.22	0.20	0.002
0.4	0.5	0.501	0.52	0.49	0.004
	0.8	0.801	1.01	0.76	0.015
	0.2	0.203	0.22	0.20	0.004
0.6	0.5	0.500	0.52	0.48	0.004
	0.8	0.800	0.84	0.76	0.006
	0.2	0.200	0.21	0.19	0.002
0.8	0.5	0.500	0.53	0.49	0.004
	0.8	0.800	0.84	0.76	0.0065