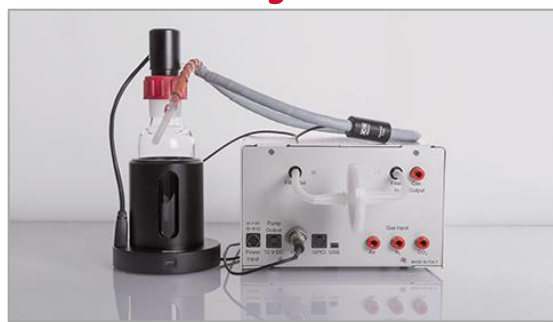


Technical Data Sheet - January 2019



Technical Specifications

Operation mode	Adds CO ₂ and N ₂ to Air
Concentration Range	CO ₂ : 0-10%; O ₂ 0-1%
CO ₂ Accuracy	± 5% of CO ₂ concentration, i.e. ± 0.25% at 5% CO ₂
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%
CO ₂ Repeatability	Better than 0.1%
O ₂ Repeatability	0.05% of O ₂
Total Flow rate, NI/m	0.2-0.8 NI/min
Outlet Pressure	ambient
CO ₂ Consumption	0.02 at 5% CO ₂ and 0.4 NI/min total flow rate
N ₂ Consumption	0.3 at 5% O ₂ and 0.4 NI/min total flow rate
CO ₂ Sensor	Non Dispersive InfraRed (NDIR) dual wave length detector
O ₂ Sensor	zirconium oxide
CO ₂ Sensor Life	10 years
O ₂ Sensor Life	9-12 Months
Input and Output Gas connectors	6 mm OD push in fittings
Dimensions, mm	348x290x140
Weight, g	7200 g
Compatible with	H201 T UNIT BL and H301-T UNIT BL
User interface	OKO-Touch (to be ordered separately)
Web Operation	through Smart Box (to be ordered separately)
Filtering device	PTFE membrane with 0.2 µm pores
SDK	Available for download through website



Oko Touch

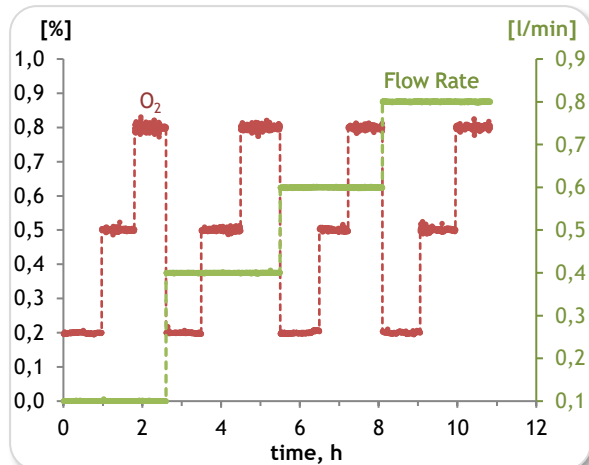
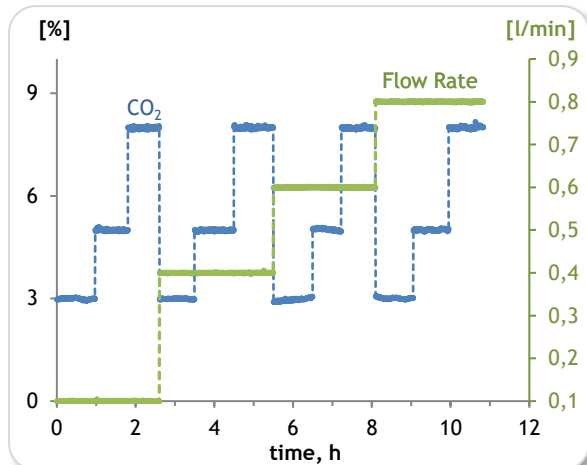


Smart Box



Air Pump

CO₂ - O₂ UNIT BL [0-10;0-1]



Total flow rate	CO ₂ set point	Mean	Max	Min	Std
0.1	3.0	2.99	3.04	2.93	0.02
	5.0	5.00	5.09	4.96	0.02
	8.0	7.99	8.05	7.92	0.02
0.4	3.0	2.99	3.01	2.96	0.01
	5.0	5.00	5.04	4.95	0.02
	8.0	8.00	8.37	7.93	0.04
0.6	3.0	3.02	3.08	2.95	0.04
	5.0	5.01	5.08	4.95	0.03
	8.0	7.98	8.08	7.79	0.03
0.8	3.0	3.00	3.03	2.96	0.02
	5.0	5.01	5.06	4.96	0.02
	8.0	8.01	8.17	7.93	0.04

Total flow rate	O ₂ set point	Mean	Max	Min	Std
0.1	0.2	0.199	0.21	0.19	0.002
	0.5	0.501	0.52	0.47	0.004
	0.8	0.800	0.85	0.73	0.011
0.4	0.2	0.200	0.22	0.20	0.002
	0.5	0.501	0.52	0.49	0.004
	0.8	0.801	1.01	0.76	0.015
0.6	0.2	0.203	0.22	0.20	0.004
	0.5	0.500	0.52	0.48	0.004
	0.8	0.800	0.84	0.76	0.006
0.8	0.2	0.200	0.21	0.19	0.002
	0.5	0.500	0.53	0.49	0.004
	0.8	0.800	0.84	0.76	0.0065

