

# DSA COVID-19 BREATH ANALYZER

## Key Features

- High sensitivity and accuracy for COVID-19 recognition
- Built-in redundancy for VOC readings
- IoT device with built-in WLAN and mobile support
- Web-based user interface that automatically creates a unique identification for each individual breath test
- Deep Computing / Learning Algorithms used for the disease identification
- Providing COVID-19 diagnosis in 2 minutes
- No patient data needed
- Disposable mouth piece with no-return valve
- External plug-in HEPA filter in air exhaust

## Specifications

Analysis medium	Exhaled Breath Gas
Sampling Time	30 sec
Dimensions	60 x 60 x 190 mm
Weight	250 g
Operating Temperature	0 - 55 Celsius
Ambient humidity	10 - 80% non-condensing
Input Voltage	Nominal 10 - 24 VDC
Input Current	0.5 - 1.5 A; voltage dependent
Battery (option)	Li_Ion / Li-Poly / 2 AA
Daily power consumption	35 Wh
Voltage	7.2 V (2 Li cells in series)
IP-class	IP20
IoT	WLAN 2.4 GHz / 4G
VOC Sensors	9 analog / digital nanosensors on separate sensor module
Environmental Sensors	T [C], RH[%], P[mbar]
Compatibility	EMC (2014/53/EU)
Software	Over-the-air (OTA) updates, sensor regulation and calibration
Covid-19 recognition	Deep Computing Algorithms



## Description

The DSA Analyzer is a handheld breathalyzer intended for the diagnosis of COVID-19. The unit contains a set of carefully selected and configured nanosensors that record Volatile Organic Compounds (VOC) and biomarkers from exhaled breath. The unit communicates with a cloud-based Artificial Intelligence -powered algorithm that recognises correlation between detected biomarkers and established characteristics of COVID-19. The unit can be field re-optimised based on any new scientific data on COVID-19. The unit is future-proof for additional disease algorithms.

