

DR2000 FLYING LAB

Drone Based Air Quality Monitor



The Drone Based Air Quality Monitor DR2000 allows for maintaining a safe distance while acquiring a required air sample for laboratory analysis in real time. The DR2000 mounts to virtually any drone and offers a cost-effective solution, while allowing access to spaces that were previously impossible, both horizontally and vertically, for diverse applications such as emergency response, hazardous waste sites, stack/ flare emissions, over/ across lagoons, large perimeters, and more. Ambient air collection has never been easier or more affordable.

Included with DR2000:

- DR2000 Analyzer
- Ground Station Receiver
- 9" Tablet with Build-In Interface
- Air Sampling Probe
- Charge adapter
- Zeroing Filter
- Safety Ties

**Does not include drone*



The DR2000 now features a brand-new patented sampling system that samples only undisturbed ambient air, completely avoiding propeller downwash.

DR2000 analyzes data continuously while in flight at a rate of more than 100 samples per second.

It sends back to the ground station using long range radio transmission (LoRa protocol), providing a secure & encrypted transmission of data

Data is automatically stamped with GPS position, latitude, time, date, relative humidity, and temperature.

This data can be used for numerous applications using our proprietary DR2000 analysis software.



General Capabilities

DR2000 can travel any distance above ground level, up to 150 meters, for sampling



Lightweight Design

This allows a diverse drone portfolio and less weight grants the operator a longer flight time



Battery Life

The DR2000 is come equipped with a fast charge battery for continuous operation of up to 3 hours, before recharging



Cloud Access

Data can be accessed on location or remotely using encrypted cloud-based hosting



Ground Station

9" Tablet equipped with LoRa communication capabilities and customized DRIMS2 mobile software

Dimensions, Weight	23 cm x 10.8 cm x 10.3 cm. 520-640g
Max. # of Sensors	11 (4xEC, 1xC02, 1xPID, 1xCH4, 1xPM, T, RH, Barometer)
Type of sensors	PID, NDIR, EC, Laser Particulate Counter, Temperature and Relative Humidity, and barometric pressure
Sampling rate	Approximately 1/s
Probe Length	44 cm or 88 cm (switchable)
Time in flight	Drone dependent, can be mounted to virtually any drone
Communication	LoRa, GSM/WiFi
On-board data storage	16GB SD card
Additional	Cloud Server, On-Board Server/Storage
Temp/Humid Range	5°C to 40 °C(Temperature), 10 - 90% (RH)
Calibration	Auto-zero before flight. Full sensor calibration recommended once annually
Mounting hardware	Customizable mounting lid. Triple mounting safety redundancy to the drone (mounting screws, counter-weight ties, zip ties)
Location and Altitude	GPS Based with barometric pressure augmentation



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