CTmini:
COMPACT PARTICULATE MONITOR

Introducing the Scentroid CTmini, a small and lightweight device designed to meet your environmental monitoring needs. CTmini provides you with accurate and reliable particulate monitoring as well as temperature, relative humidity, and pressure.
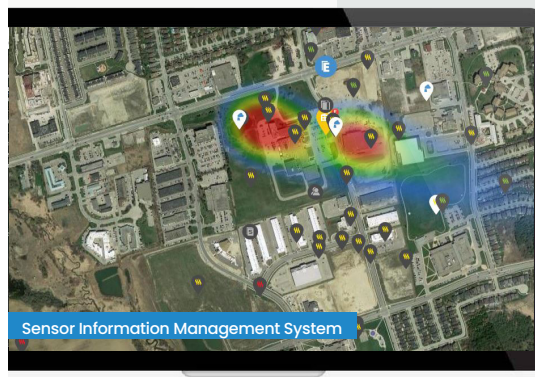
Continuous Monitoring:

Data is reported every minute, with samples collected every 10 sec. Data is sent to Scentroid's powerful cloud based software solution - SIMS3, via WiFi connection. In the event of a communication interruption, an internal memoery card ensured no data loss.

Eco Mode:

With Eco mode,. the CTmini can run on battery power for up to 7 days of continuous operation. In Eco mode, the CTmini samples once every 2 minutes with Electro-Polymer sensors constantly sampling at 1Hz.

Versatility:

Ideal for a wide range of applications ranging from outdoor monitoring, perimeter monitoring, dust control operations, environmental research studies, construction site monitoring, or even Urban Pollution studies. CTmini has you covered!

Solar or Wind Powered Options!
The CTmini is able to connect to solar panels or wind turbines, ensuring continuous operation even in areas lacking traditional power sources.

Powerful Dust Analysis
High accuracy dust analysis (PM 1, 2.5, 4, and 10) using a patented multi-beam laser counter and heated sampler.

Offline Sampling
The CTmini is equipped with a battery-backup real time clock to ensure accurate offline sampling.

External MET Station Compatible
CTmini units are equipped with high accuracy temperature, relative humidity and pressure sensors. Units can also be connected to external weather stations for UUV, solar, wind speed, and rain rate sensors.

Particulate Source Tracking
Track the location(s) of unknown particulate matter sources utilizing back trajectory within our SIMS3 Cloud Software.

Sensor Information Management System

Dimensions, Weight	160 mm x 167 mm x 70 mm (not including antennas), 800g
Sensors	PM 1, 2.5, 4, and 10. Temp., Humidity. Includes CO2 (GHG), Absolute Pressure, (2) Optional Electro-Polymer Sensors
Power	12-32VDC Input; 120-240VAC w/Included Adaptor, Optional Solar Panel or Wind Turbine
Local Storage	16GB MicroSD card, Long-term continuous monitoring
Communication	2.4GHz Wi-Fi Standard, Optional LTE Cat.M/NB-IoT (Physical SIM)
Data Usage	50 MB/month of Data when sending 1 min average
Battery Only Runtime	Up to 1 week of rechargeable battery life
Temp/Humid Range	-10°C to 50°C with battery, -30°C to 50°C without battery, 10% - 95%(RH)
Mounting	Wall mount, pole mount, or tripod
IP Rating	IP54 - ABS Plastic, RAL 7035 light gray, screw cover
PM Sensor Detection	Max detection limit 1000 ug/m3, lowest detection threshold 1 ug/m3
PM Sensor Resolution	1 ug/m3