SciFlair
Security . Automation

AIR QUALITY MONITOR

NOX SENSOR, RANGE: 20 - 500 PPB

O3 SENSOR, RANGE: 20 - 500 PPB

PM0.5 (0.3 TO 0.5 µm), PM1.0 (0.3 TO 1.0 µm), PM2.5 (0.3 TO 2.5 µm), PM4 (0.3 TO 4.0 µm), PM10 (0.3 TO 10.0 µm) SENSORS

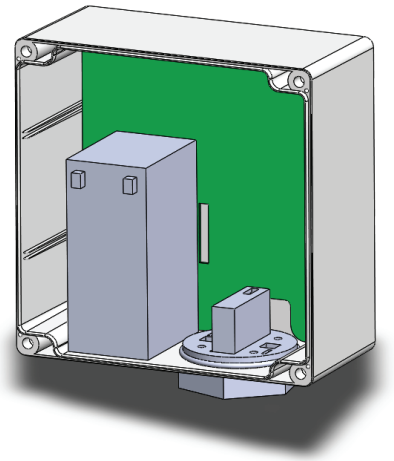
TEMPERATURE AND HUMIDITY SENSOR

NOX AND O3 SENSOR LIFETIME OF 5 YEARS

MAINS /SOLAR/ VEHICLE BATTERY POWER OPTION

GPS TRACKER OPTION

BUILTIN INTEGRATION WITH MAJOR ANALYTICS ENGINES



Breathing clean air reduces the risk of stroke, heart and lung diseases and other respiratory illnesses such as asthma. The increased use of fossil fuels, large scale industrial processes, big construction projects, house hold activities and wild fires are major contributing factors to deteriorate the air quality. The concentration of NO2 levels, especially in built up areas, is the major health risk that need to be known in order to reduce exposure.

SciFlair has developed an air quality monitor which is able to measure nitrogen oxides (NOx), ozone (O3), particulate matter (PM 0.5, 1, 2.5, 4, 10), temperature and humidity levels. The unit can be installed indoors as well as outdoors. It has a built in battery which can be recharged through mains adapter or connecting a solar panel. There is an option to install it in vehicles with GPS integration to take mobile measurements along travel routes.

SciFlair Air Quality Monitor uses Axino IOT for communication and data collection. It can be connected using GSM, LoRa, SigFox, WiFi, Ethernet and Mesh technologies for data transmission.

Air Quality Index (AQI)	Level of Concern and Air Quality Condition	NO_2 Concentration [ppb]	O_3 Concentration [ppb]	Color Code
0 to 50	Good	0 to 53	0 to 62	Green
51 to 100	Moderate	54 to 100	63 to 124	Yellow
101 to 150	Unhealthy for Sensitive Groups	101 to 360	125 to 164	Orange
151 to 200	Unhealthy	361 to 649	165 to 204	Red
201 to 300	Very unhealthy	650 to 1249	205 to 404	Purple
301 to 500	Hazardous	1250 to 2050	405 to 604	Maroon

Air Quality Index Levels Described by United States Environmental Protection Agency, Office of Air Quality Planning and Standards (OAQPS), 2019.

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