



**Demand control Ventilation Controller  
Monitoring CO & NO2 in Parking area**

**CO &  
NO2**

## CO and NO2 Monitoring and Control System For Parking Area

**Continuously monitors the concentration of carbon monoxide and nitrogen dioxide in parking area, and actuates the ventilation system based on international parking area standards of CO and NO2 concentration.**

**In parking structures, CO and NO2 are two of the most abundant airborne contaminants and poses significant safety concerns. The CO and NO2 levels must be controlled or ventilated when concentrations increase to unsafe levels.**

**Demand controlled ventilation using navter parking area monitor and controller reduces considerable amount on the total operational cost of the ventilation system employed.**



### Applications

- Enclosed Parking Garage
- Generator Rooms
- Power Plants
- Factories , Tunnels
- Service Bays, Boiler Rooms, Warehouses.
- Ambulance and Fire Station Truck Bays.
- Vehicle Maintenance Bays and Battery Rooms.

## Working



Two dry contact relay with two cut off points of CO and NO<sub>2</sub> concentration to actuate a low speed fan and high speed fan, the two cut off values can be reset as per the user requirements.



Relay 1 to slow Fan



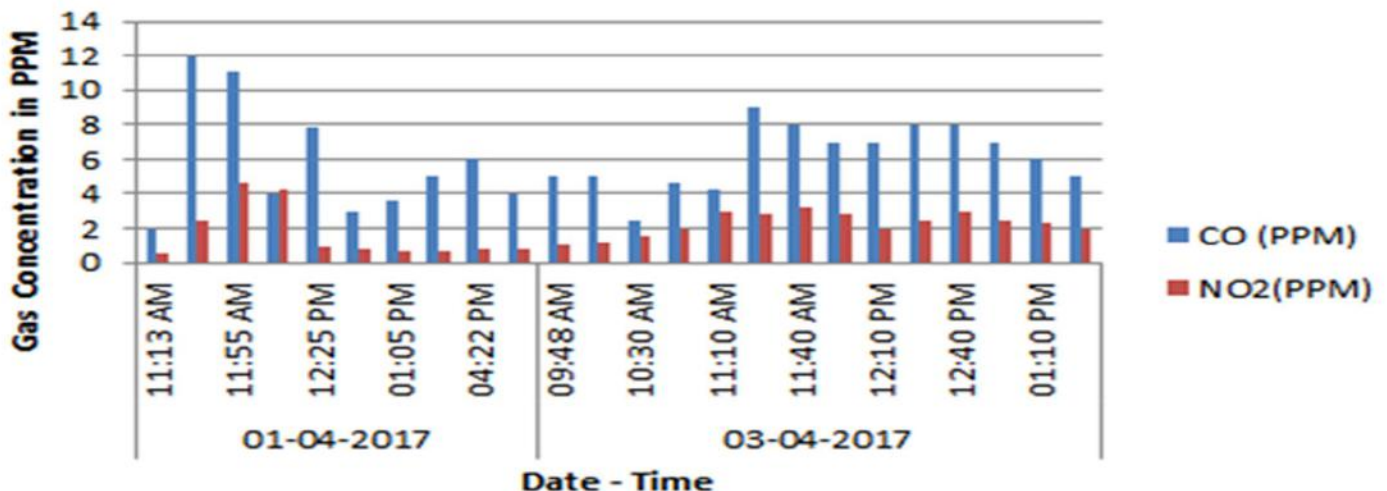
Relay 2 to High Speed Fan

## Features

### Continuous Data Logging

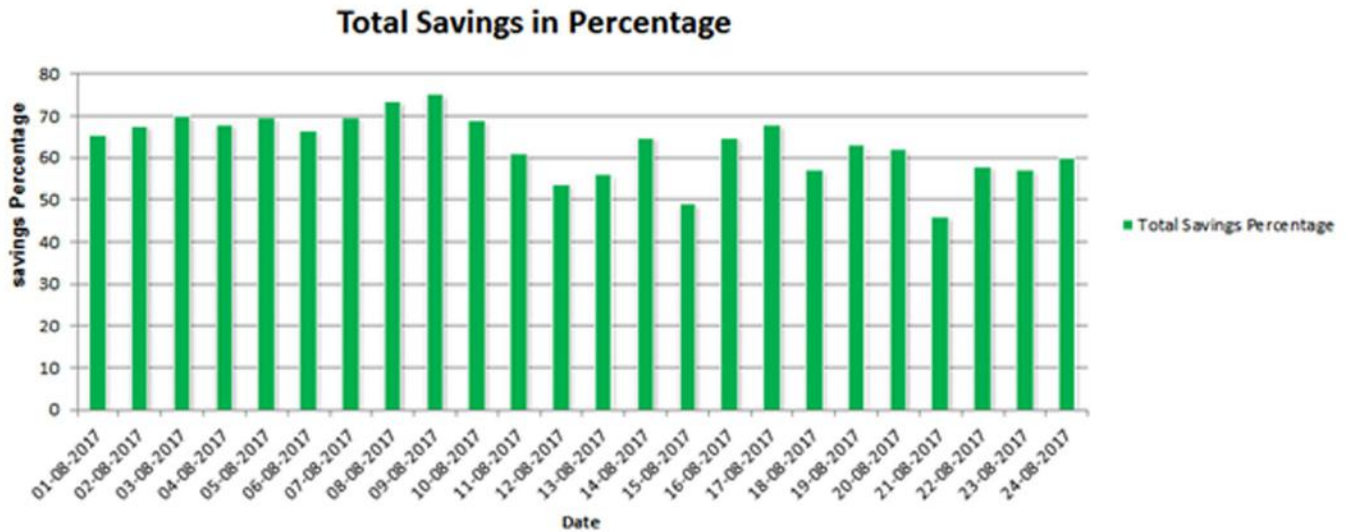
Continuous data logging of STEL value of CO and NO<sub>2</sub> concentration, and the operation time of both slow speed and high speed fans, throughout the operation of the controller, data log in excel file with auto generated graph of gas concentration versus date and time

### Gas Concentration Vs Time



## Parking Area Monitor And Controller

Realtime monitoring from mobile device thru WIFI, auto generated graph of percentage value of total saving in operation cost of the ventilation system with respect to date



## Technical Specifications

Sensor	CO sensor	NO <sub>2</sub> sensor
Sensor Type	Electrochemical sensor	Electrochemical sensor
Detection range	0-1000 PPM	0-250 PPM
Response Time	T90 < 25 seconds	T90 < 30 seconds
Accuracy	± 2%	± 2%
Resolution	1.0 PPM	0.1 PPM
Sensor life	>2 years	>2 years
Operating temperature	-5°C to 50°C	
Operating Humidity	15% - 90% RH	
Relay output	Two dry-contact outputs, maximum switching current 3A (230VAC/30VDC), based on preset cutoff values	
Power supply	230 V AC / 24V DC	
Power consumption	18w	
Housing	Thermoplastic Enclosure	
Display unit	PPM	
Communication mode	WIFI	
Storage	In built storage of 1 million readings	
Warranty	One year	
Calibration	Factory calibrated valid for 1 year	