

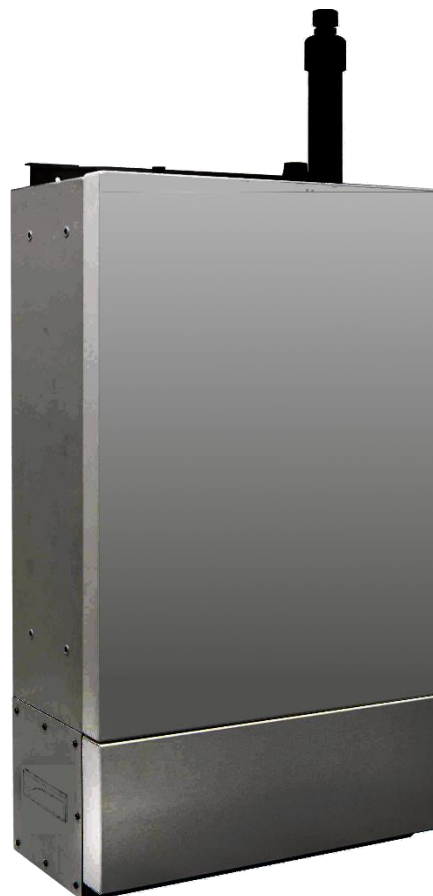


Environmental Sensors

Smart Environmental Sensor is made up of multiple sensor modules that are integrated with a smart controller. Each sensor samples the environment at configurable intervals and transmits the data to the controller. The controller in turn sends that data to the Central Environmental Monitoring Server (CEMS). The controller sends the data to the CEMS either through the WiFi or Ethernet or GSM. The Environmental Sensor supports display of the live sensor data to a local multi-line LCD display unit

The numbers of sensors and their specification is configurable by the customer at the time of purchase. We use electro-chemical sensors for the detection of polluting gases and these sensors have long life and hence the maintenance on these sensors is very low. Apart from the polluting gas sensors, our product can also sense other environment data like temperature, humidity, noise levels, ambient light levels, dust in air (particle mater PM 2.5 & PM10), UV radiation, rainfall measurement etc. All these modules can be added to the product based on the customer needs.

The Central Environmental Monitoring Server collects sensor data from multiple locations and displays it to multiple remote multi-line LCD display unit. The sensor data can be backed up and stored for ever so that all the logged historical data can be accessed and analyzed. It calculates and displays IND-AQI, as described by CPCD, and generates multiple graphs to show the trends. It can be configured to send alerts and notifications to the registered users whenever any measured parameters crosses the threshold.



ENVIRONMENTAL SENSORS SPECIFICATIONS

S.No	Sensor	Specification
1	CO	0 – 5000 ppm
2	CO2	0 – 10%
3	NO2	0 – 200 ppm
4	SO2	0 – 200 ppm
5	PM2.5	Up to 230 ug/m3
6	PM10	Up to 450 ug/m3
7	Noise	Up to 120 dB(A)
8	Temperature	-40C to 80C
9	Humidity	0 – 100%
10	Air Pressure	60 kPa – 110 kPa
11	Part Number	ENV-PAC-37