Indoor Air Monitoring Within Buildings

The BuiltAir is designed to monitor Buildings click Here

Building Zones

Whatever standard you are monitoring to it is important to identify occupied zones within building areas.

Within those occupied zones, define the number of people and the types of activity occurring. This becomes important with ventilation and air exchange rates.

Indoor Environment Rating

Many standards require indoor monitoring, however it appears that NABERS (National Australian Built Environment Rating System) is the only one to consider requirements as identified within ASHRAE 55 and 62. Specific parameters include:

IAQ- Indoor air quality

The measurement of :

CO_2- Carbon Dioxide –

CO- Carbon Monoxide

THC- Total Hydrocarbon

(H-CHO)-Formaldehyde

NO_2 -Nitrogen Dioxide

O_3 – Ozone

Thermal Comfort

Ambient Temperature

Radiant Temperature

Relative Humidity

Barometric Pressure

Noise

Light

Airspeed

Calculated Parameters

WBGT Wet Bulb Globe Temperature

HI Heat Index

PET

What is Radiant Temperature and how is it measured by the BuiltAir?

Radiant temperature is a measurement of the average mean radiant temperature a measurement of all the surrounding surfaces, walls, ceilings and floor. Measured as a function of a sensor and calculation.

Monitoring Method

The above parameters can be undertaken by manual sampling methods (eg mdhs or NIOSH) or real time monitoring methods, for which a yearly calibration method must be identified.

The BuiltAir

Meets all the monitoring requirements for NABERS, WELL...

It can be use in remote, standalone or a hybride of local standalone reporting to a data dashboard (see below). Simple to deploy with easy to set sampling frequencies, alert parameters. The unique functionality of the BuiltAir, is, it is a whole zone or building system. It can also be installed for permanent monitoring. Click to visit Nosmotech and the BuiltAir