



Centralized Sensing for Indoor Cannabis Cultivation



The main focus of an indoor grow facility is to provide plants with a better/more consistent growing environment. To complicate the situation for cannabis operations, they typically include multiple types of grow rooms, each with unique environmental conditions.

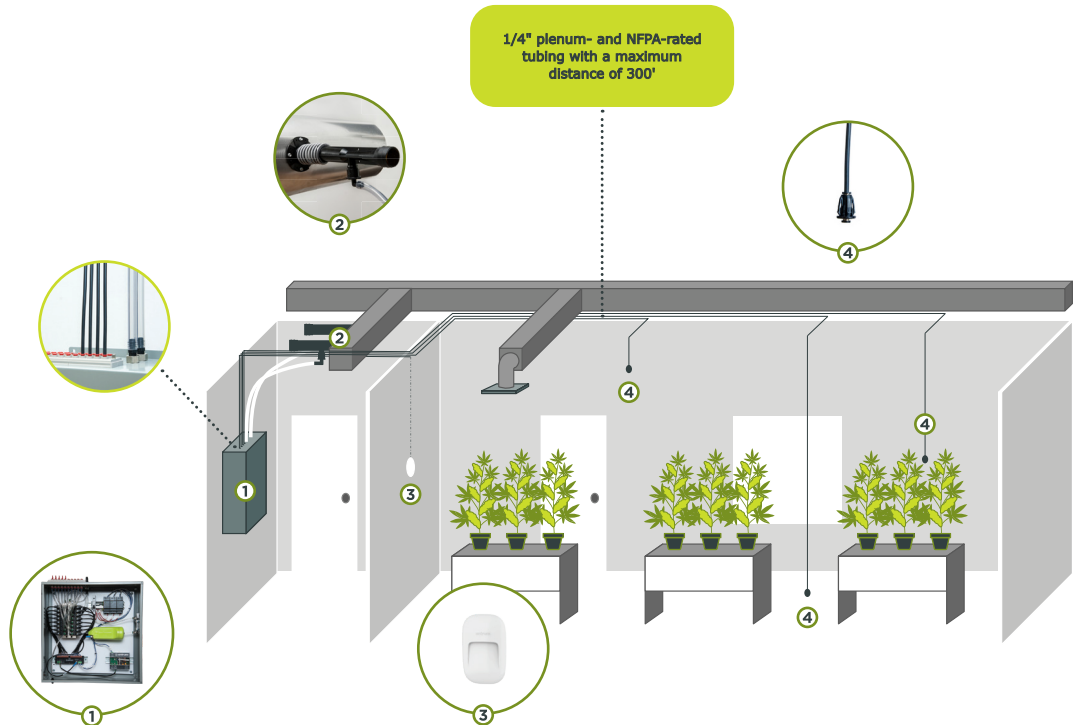
The ideal conditions are driven by the plants, but monitoring at the canopy level has proven to be both

difficult and costly based on sensing capability and the number of sensors required.

Introducing AntrumX™, a centralized sensing solution that monitors the Indoor Air Quality of up to 32 unique zones from a single location, leading to more accurate and consistent data for increased yield and repeatable results.

SAMPLE INSTALLATION

- ① **CONTROL PANEL**
Contains the sensor pack.
- ② **AIR ACCELERATOR**
Uses building differential pressure to create a vacuum.
- ③ **FACEPLATE**
Air samples are drawn from the faceplate to the control panel.
- ④ **DUCT PROBE**
Air samples are drawn from the probe to the control panel.



AntrumX provides **more sensing with fewer sensors**, and locates the sensor pack outside of the environment so the grow rooms are wash-down ready.



Benefits of Antrum's Centralized Sensing

Maximize Yield

With the ability to monitor 1, 2, or even 16 indoor pollutants, AntrumX provides growers with more comprehensive data, allowing them to create and maintain an ideal indoor growing environment.

More Sensing, Fewer Sensors

Unlike discreet sensors, which require an end device for each zone they monitor, AntrumX has the ability to analyze 16 individual zones with one device, resulting in a 94% reduction of sensors deployed.

Wash-Down Capable

The AntrumX solution removes all electronics from the grow environment using duct probes and faceplates to allow air samples to be transported to the control panel located in the mechanical room.

Common Sensing Options Include:

Parameter*	Point(s)
Carbon Dioxide	CO ₂
Relative Humidity	RH
Dew Point	DP
Total Volatile Organic Compounds	TVOC Index, TVOC (MOx)
Particulate Matter	PM0.1, PM0.3, PM0.5, PM1.0, PM2.5
Ozone	O ₃

**Contact local Antrum representative for custom sensing configurations*