# PCIAQS- Premium Choice IAQ Sensor



S&P's exclusive PCIAQS detects both Volatile Organic Compounds (VOCs) and humidity when installed with a PC fan. The VOC sensor has an adjustment knob that allows you to set the sensing range based on the concentration of particles (ppm). The humidity sensor detects rapid increases in moisture at the ceiling level where steam and humidity naturally rise, and automatically turns on the fan. The sensor easily mounts inside the fan housing utilizing 2 pre-drilled holes and a standard receptacle. There is a built-in switch to turn off a feature that is not utilized (VOC or humidity sensing). The PCIAQS also includes a continuous speed control to adjust the fan at a percentage of full speed so the fan can be run continuously to meet code requirements.

**Features:**

- Easy Plug-&-Play design
- Detects VOCs and/or rapid rise in humidity
- Semiconductor gas sensor, detecting a wide range of VOCs
- Monitoring range is 400-2000 ppm equivalent CO2
- Senses humidity at ceiling level
- Field adjustable humidity sensitivity with 50-100% range. Factory setting is 75%
- Continuous speed control to run fan continuously
- Integrated control switch to turn features on and off
- Can be installed with new fan or as an add-on later
- Meets CALGreen Bathroom Fan Requirement

**Detectable gases*:**

- Ammonia
- Acetone
- Benzene
- Carbon Monoxide
- Ethylene glycol
- Formaldehyde
- Methylene chloride
- Perchloroethylene
- Toluene
- Xylene
- 1,3-butadiene
- and others

• Equivalent Carbon Dioxide CO2(equiv)

- 0V 400ppm CO2(equiv)
- 1V 720ppm CO2(equiv)
- 2V 1040ppm CO2(equiv)
- 3V 1360ppm CO2(equiv)
- 4V 1680ppm CO2(equiv)
- 5V 2000ppm CO2(equiv)

The PCIAQS is compatible with the following PC models:

| Model |
|---|
| PC80X |
| PC110X |
| PC150 |

The chart below indicates with plug-&-play or other PC accessories can be used with the PCIAQS:

| | Standard Grille | PCLK | PCLEDK | PCMK | PCSC | PC3S | PCRD | PCMG |
|---|---|---|---|---|---|---|---|---|
| **PCIAQS** | ✓ | ✓ | ✓ | - | - | ✓ | ✓ | ✓ |

For more information contact the factory for additional submittal drawings.

S&P will not be responsible for fabrication changes or errors resulting from customer use of a non-current submittal drawing.

*The sensor must not be exposed to high concentrations of organic solvents, ammonia, silicone vapor or cigarette-smoke in order void poisoning the sensitive layer.



Soler&Palau Ventilation Group