

High Priority: Safe Air Quality in Cannabis and Hemp Oil Extraction

In the budding industry of THC/CBD oil extraction, dangerous levels of Toxic or Flammable gas can potentially put a damper on your profits.

Puns aside, the business of cannabis is serious business with serious hazards that could jeopardize your operation.

GAS HAZARDS. Extraction solvents are used to remove the essential oils from plant matter, which is then distilled to separate it into the desired compounds and remove the solvent. Common process “solvents” include Butane, Ethanol, and other toxic & flammable liquids. Carbon Dioxide is used for atmosphere enrichment - which is toxic and can cause asphyxiation.

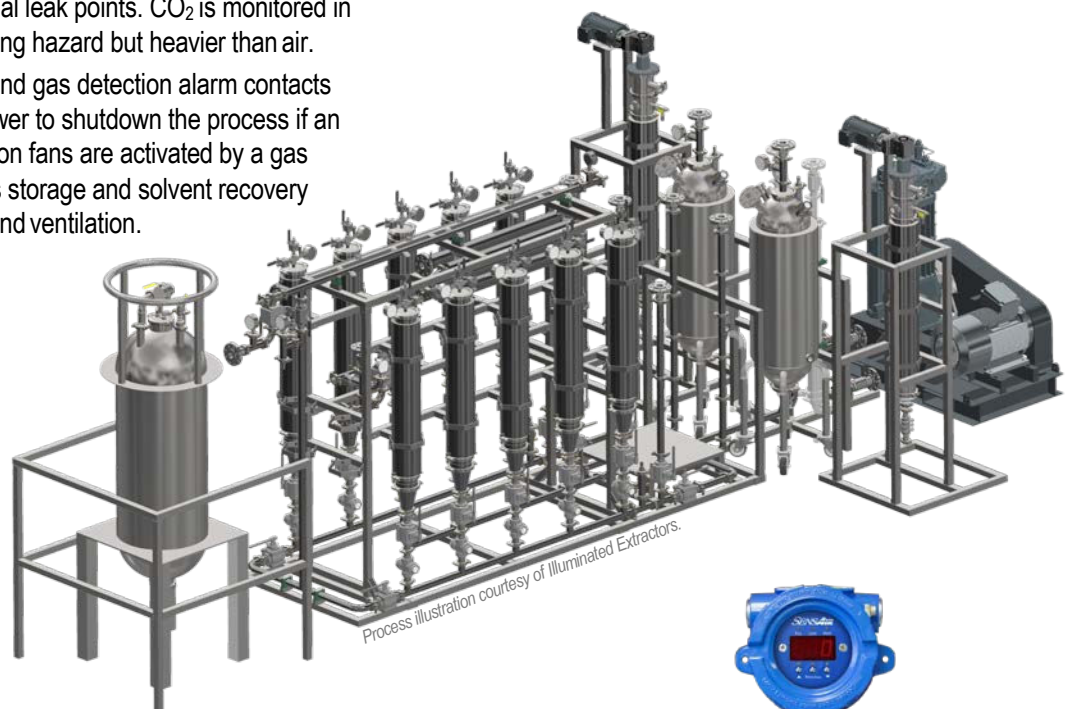
MONITOR FOR COMPLIANCE AND IMPROVE SAFETY.

Building and safety regulations specify the use of gas detection to be installed in specific areas based on gases to be monitored and the area hazard classification. Codes call for bottom air make-up ventilation and a listed gas detector within 6-12 inches of the lowest point for flammables. Detectors are often placed in front of the exhaust ventilation grills and on the process equipment near the potential leak points. CO₂ is monitored in the waist-to-face zone, as it is a breathing hazard but heavier than air.

Local annunciation may be employed and gas detection alarm contacts interlock with other devices and AC power to shutdown the process if an alarm is higher than 25% LFL. Ventilation fans are activated by a gas alarm of 10% LFL or higher. Indoor gas storage and solvent recovery areas require their own gas detectors and ventilation.

FLAMMABLE SOLVENTS

require storage, piping, valves and controls for proper process operation and safety. Monitoring flammable and toxic gases is mandatory per regulation. CO₂ is another common hazard at these sites coming from cylinders or a gas-burning generator. Monitoring for Carbon Monoxide (CO), Carbon Dioxide (CO₂), and Natural Gas or Propane is required when a generator is in use.



What solutions can SENSIDYNE provide?

SENSAIR[®] FIXED POINT GAS DETECTION

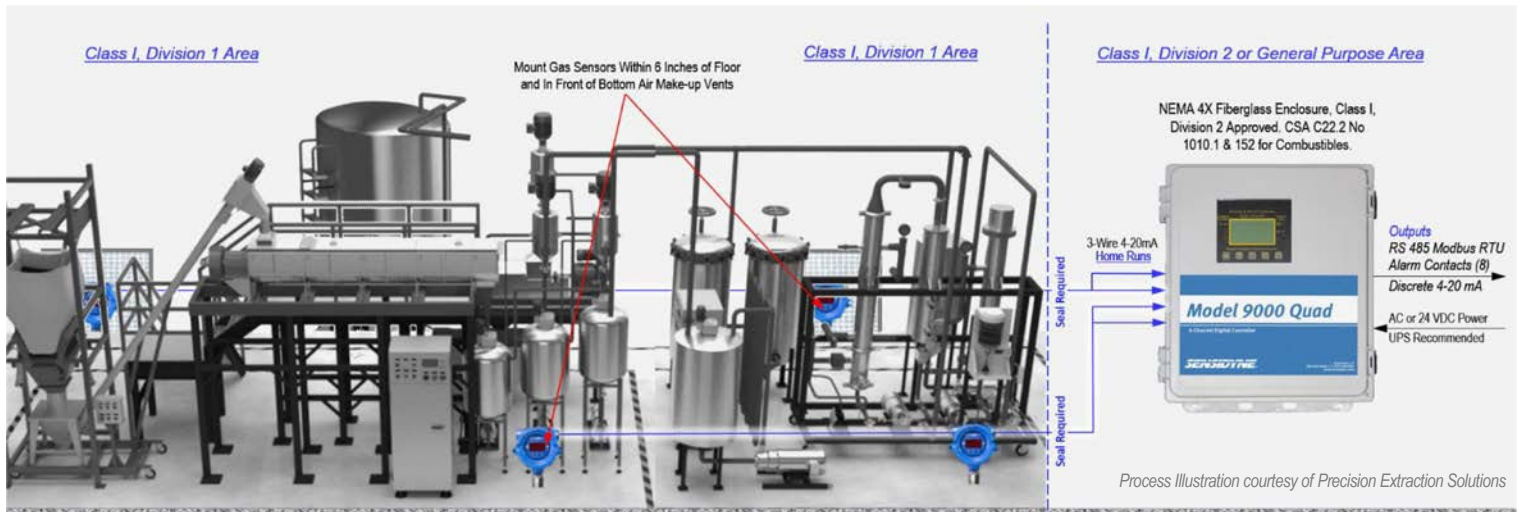
Solid Solutions for a Sensitive Budget.



ADVANCED GAS DETECTION

SENSAIR is based on decades of proven gas detector design. The result is a performance certified advanced product with greatly enhanced capabilities, including an easy to use, non-intrusive user interface, clear LED display, and intuitive configuration and maintenance functions, which are controlled by a simple magnetic stylus.

Transmitter enclosure material options are offered, along with horizontal or vertical conduit mounting and accessories for duct mounting, sample draw, and remote gassing. Communication options have been expanded to include Modbus[®], BACnet[®] and Alarm relays, in addition to 3-wire and 4-20mA. More than 25 gas sensor types are offered.



SENSIDYNE GAS DETECTION SYSTEMS

Sensidyne has decades of experience in manufacturing fixed gas detection, and we pioneered intelligent gas sensors and the universal transmitter in the 1990s. Customers rely upon our high quality products for asset protection and personnel safety. The staff has decades of experience in process, industrial, manufacturing and HVAC applications and should be consulted for specific solutions to dangerous gas exposure and compliance issues. Sensidyne is an ISO/IEC 17025:2017 Accredited and ISO 9001:2015 Compliant laboratory facility. Fixed gas detection has global approvals for hazardous (classified) areas, sensor performance certifications, CE Mark, and RoHS. *Every team member is dedicated to delivering robust products and solutions that are effective for customer satisfaction.*

Making the Best Sense since 1983.

SENSIDYNE[®]
Industrial Health & Safety Instrumentation



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