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Reliable CO₂ gas monitoring in the production of medical cannabis

MSR gas sensors detect dangerous ambient air in critical production processes.

Cannabis is generally prohibited in international trade. In recent years, however, numerous countries such as Canada, Germany, Mexico, Brazil and America have adapted their legislation regarding production, research and use, especially for medical purposes. With the legalisation in Germany, more and more targeted cannabis cultivation is being carried out and industrial cannabis oil production is picking up speed.



For a certainly gentle and sustainable extraction of CBD oil, the supercritical CO₂ extraction process has proven to be particularly efficient. Roughly translated, CO₂ extraction means the act of pulling certain substances out from a raw material by means of carbon dioxide. CO₂ is used as a solvent in this process. Not only cannabis extracts but also, for example, caffeine and aromatic substances are obtained in this way.

The term "supercritical" does not refer to the production, but to the chemical state of the carbon dioxide, which is pressurised to over 73 bar and heated to approx. 30°C.

In industrial cannabis production, gas monitoring in the extraction room and at the supply lines is essential, as CO₂ displaces the oxygen in the ambient air and thus endangers human life. Furthermore, gas (e.g. methanol, propane, butane or carbon monoxide) is also used in greenhouse cultivation to promote growth and to heat and must be permanently detected.

Solutions from MSR-Electronic

MSR offers reliable fixed gas warning systems that ensure permanent indoor air monitoring to detect dangerous gas concentrations thus protecting lives and values with lasting effect.

The new Compactcontroller from MSR-Electronic is designed for connection of up to 10 gas sensors via its own field bus und is used to warn against different gases. Multiple output and input options allow for easy integration into existing systems.

BENEFITS

- Display for all indication and configuration functions
- Fieldbus connection for up to 10 gas sensors
- Hardware and software according to SIL-compliant development process
- Modular technology (plug-in and exchangeable), reverse polarity and overload protected
- 3 relays, 2 transistor outputs, 2 digital inputs, various housing types with IP65
- Warning buzzer and status LED for alarm, fault, operation and service (option)



Further information on **MSR products** can be found [here](#) in the current **MSR-Electronic online catalog** or in the webshop: www.msr-24.com.



MSR-Electronic is a manufacturer of fixed gas warning systems with decades of experience in the field of building automation and gas measurement technology. The international company with headquarters in Germany has a wide range of methods for the detection of toxic and combustible gases. On this basis MSR-Electronic develops individual gas sensors, controllers and warning devices for many applications, such as parking garages, tunnels, petrochemical industry or shipping. The products meet more than the general standards and regulations and can therefore guarantee the safety of the plant. www.msr-electronic.de

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Copyright MSR-Electronic GmbH, Germany, Gas measuring system with up to 10 gas sensors

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