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Sensor & Solutions

MGS-11-X



Precision small refrigerant sensor

The MGS11 precision small refrigerant sensor adopts the NDIR (non-dispersive infrared) absorption principle, combines with a high-precision sampling circuit, and has built-in temperature compensation and self-calibration functions. It can conduct real-time online monitoring of the refrigerant gas concentration in the environment, ensuring the safety of users' lives and property, and can be widely used in refrigerant leakage detection of commercial air conditioners, central air conditioners, refrigeration units and other products.

High measurement accuracy



Built-in barometric and temperature compensation



Quick response



Support switching/
RS485/UART/IIC output



Stable and reliable
performance



Good gas selectivity



Advantages

High tolerance, high reliability



Widest operating temperature range of the industry
Automotive grade electromagnetic compatibility design
NDIR principle ensures good gas selectivity

Miniature



Compact and reliable, saving space for greater functionality
Save space while taking into account energy saving
A variety of models and appearances to meet the diverse needs of end product structural design

Full industry coverage



Various specifications
Various output methods
Various measurement methods
Free combination to meet the application needs of various industries

IEC/UL (60335-2-40 Appendix LL) certified



MGS11 precision small refrigerant sensor meets all requirements in response time, calibration and short-term stability, gas selectivity test and poisoning test, refrigerant poisoning and oil mist test, long-term stability test, temperature test, air pressure test, ignition test and other test items. It is suitable for safety experiments and tests of different refrigerant leakage detection products (such as R32, R410A, R454B, R1234yf, etc.).

Parameters

Detection refrigerant	R32/R454B/R1234yf (different refrigerant requirements can be customized)	Range of working temperature	-40°C ~+85°C
Measuring range	0-100%LFL	Range of working humidity	0~95%RH (no condensation)
Measurement accuracy	±2.5%LFL	Mean time between failures	≥ 10 years
Response time	12s	Size	62*39*18.8mm(L×W×H)
Stability	≤ 1%FS/years	Waterproof and dustproof grade	IP54
Output mode	Switching output: 1 channel (Alarm output); Digital output: RS485/UART/IIC		

Applications



Commercial air conditioner



Central air conditioner



Refrigerant leakage detection of refrigeration units and other products