

Product page SGD43S-M3-S5

SGD43S-M3-S5: Flexible and complete refrigerant leakage detection system for modern HVAC systems

The SGD43S-M3-S5 is part of our SGD4x series of A2L refrigerant detection products, specifically designed for the HVACR industry as a complete refrigerant detection system (RDS). It is based on the thermal conductivity measurement principle and features a dual dry-contact relay output that can trigger a signal relay to start a blower, switch off the load or warn a control board. Easy integration and installer-friendly feedback is enabled by a status-indicating LED for quick visual feedback.



With its fast response time and broad compatibility with A2L refrigerants thanks to its versatile multi-refrigerant calibration, it is an essential component for both residential and commercial HVACR systems. The SGD43S-M3-S5 ensures effective leak detection and complies with stringent industry standards, including UL60355-2-40. It offers dual calibration in a single device for R454B and R32 for HVAC applications.

Specification

Generic

Supply voltage	24V AC/DC
Digital interface	RS-485/MODBUS
Size (LxWxH) inch	3.54 x 2.17 x 0.94
Size (LxWxH) mm	90 x 55 x 24

Refrigerants

Monitored refrigerants	R-32, R-454B, dual calibration
Connector	8-pin sealable connector
Accuracy at ambient conditions	±2.5 %LFL
Response time	≤30 s based on UL60335-2-40 ed.4.0
Expected lifetime	> 15 years/self-monitored, fault alarm before EOL
Norm compliance	UL 60335-2-40 (4th editions)
IP protection	IP54, if IP54 rated connector is used

Temperature

Operating temperature range (°F)	-40 to +185°F
Operating temperature range (°C)	-40 to +85 °C

Humidity

Operating relative humidity range	0 to 100 %RH, condensing
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Product page SGD43S-M3-S7

SGD43S-M3-S7: Flexible and complete refrigerant leakage detection system for modern refrigeration systems

The SGD43S-M3-S7 is part of our SGD4x series of A2L refrigerant detection products, specifically designed for the HVACR industry as a complete refrigerant detection system (RDS). It is based on the thermal conductivity measurement principle and features a dual dry-contact relay output that can trigger a signal relay to start a blower, switch off the load or warn a control board. Easy integration and installer-friendly feedback is enabled by a status-indicating LED for quick visual feedback.



With its fast response time and broad compatibility with A2L refrigerants thanks to its versatile multi-refrigerant calibration, it is an essential component for both residential and commercial HVACR systems. The SGD43S-M3-S7 ensures effective leak detection and complies with stringent industry standards, including UL60355-2-40. The single unit is triple calibrated for R454A, R454C and R455A in refrigeration applications.

Specification

Generic

Supply voltage	24V AC/DC
Digital interface	RS-485/MODBUS
Size (LxWxH) inch	3.54 x 2.17 x 0.94 inch
Size (LxWxH) mm	90 x 55 x 24 mm

Refrigerants

Monitored refrigerants	R-454A, R-454C, R-455A, triple calibration
Connector	8-pin sealable connector
Accuracy at ambient conditions	±2.5 %LFL
Response time	≤30 s based on UL60335-2-40 ed.4.0
Expected lifetime	> 15 years/self-monitored, fault alarm before EOL
Norm compliance	UL 60335-2-40 (4th editions)
IP protection	IP54, if IP54 rated connector is used

Temperature

Operating temperature range (°F)	-40 to +185°F
Operating temperature range (°C)	-40 to +85 °C

Humidity

Operating relative humidity range	0 to 100 %RH, condensing
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