

Macurco™

BUILDING & HOME SOLUTIONS

Whether you are looking for gas detection for a security system, building automation or HVAC system, for personal safety or for monitoring specific gases in potentially hazardous environments, Macurco has a gas detector to meet your needs.



AIRESHIELD

Refrigerant Monitor



Macurco AireShield

The Macurco AireShield is your all-in-one solution for advanced refrigerant detection, offering unmatched flexibility across a wide range of applications. Powered by cutting-edge NDIR sensor technology with built-in temperature compensation, it delivers industry-leading accuracy while dramatically reducing false alarms - outperforming older technologies like MOS sensors known for high error rates and constant maintenance. With a long sensor lifespan and low cost of ownership, the AireShield is designed to go the distance without compromising performance. It not only meets but exceeds regulatory codes and compliance standards. Installation, commissioning, and maintenance are fast and effortless thanks to smart sensor integration, which delivers real-time diagnostics and a full suite of user alerts.

Key Features

- NEMA4X/IP65 enclosure
- Field replaceable smart sensor
- Optional buzzer
- Event logging
- User selectable settings (Default to industry standards) via four-button interface
- Analog/digital output options
- 5 A SPDT and 0.5A relays to control fans, valves, louvers, horns and strobes
- Colored notification LED – (Alarm, Warning, Trouble, Calibration, Bluetooth Connection)
- Intuitive calibration process
- Remote Sensor (up to 2 per transmitter)

Applications

- Chiller rooms
- Walk-in coolers
- Mechanical rooms
- Food retail
- Cold storage
- Process cooling
- Food & beverage
- Industrial refrigeration
- Ice rinks
- Ships



AireShield Remote Housing

Specifications

Size	8.25" x 2 5/8" x 5 3/4"
Weight	1 lb.
Voltage	12-24VAC, 12-32VDC
Current draw	4.08 W (max) from 12 to 24 VAC or 12 to 32 VDC (See Manual for Current Draw on Various Configurations)
Signal	Analog 4-20mA, 0-20mA Digital: Modbus RTU
Sensor Type	NDIR Smart
Resolution	Sensor Specific - Refer to AireShield How To Ordering and Sensor Options Guide
Sensor Range	Sensor Specific - Refer to AireShield How To Ordering and Sensor Options Guide
Alarm Levels	Industry Default / User Adjustable / Sensor Specific (See User Manual)
Relays	5 A SPDT and 0.5A
Optional Buzzer	>90 dBA at 10ft
Visual Indicator	RGB LED's
Operating Temperature	Sensor Specific - Refer to AireShield How To Ordering and Sensor Options Guide
Ambient Humidity	0-95% RH non-condensing
Life Expectancy	Sensor Specific - Refer to AireShield How To Ordering and Sensor Options Guide
Warranty	Two year limited warranty

*Please read manual for more specifications

HOW TO ORDER

Series = AireShield (AS)

Communication Type = Analog / Digital

Sensor Configurator = No Remote / Single Remote / Dual Remote

Gas Type = R-22, R-32, R-125, R-134a, R-143a, R-227ea, R-290, R-404A, R-407A, R-407C, R-407F, R-410A, R-417A, R-422A, R-422D, R-424A, R-427A, R-434A, R-438A, R-442A, R-448A, R-449A, R-450A, R-452A, R-452B, R-453A, R-454A, R-454B, R-454C, R-455A, R-507, R-513A, R-600, R-717, R-744, R-1233zd, R-1234yf, R-1234ze, SF₆

Buzzer = Buzzer / No Buzzer

Accessories

Name	Model Number
Control Panels	DVP-120M, DVP-120B, DVP-1200
Horn and Strobe	HS-X (X = color) Amber (A), Blue (B), Clear (C), Green (G), Red (R)
Strobe Only	MSG-X (X = color) Amber (A), Blue (B), Clear (C), Green (G), Red (R)
Horn Only	MHG
Step-down Transformers	PS-24, PS-24-H, MAC6AMP, MAC10AMP
Calibration Kits	Based on Gas Type
Replacement Sensor	Based on Gas Type
Remote Sensor	AireShield Remote



Control Panels



Power Supply



Calibration Kits



Remote Sensor



Horn and Strobe



Emergency Power Off



On/Auto Switch

AireShield How To Ordering and Sensor Options Guide



Scan QR to build part number.



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