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

The Macurco AireShield is a complete product line with tremendous flexibility for detecting various refrigerants. The NDIR sensor technology with temperature compensation allows for the best accuracy while minimizing false alarms. Regardless of the application, this versatile detector exceeds code and compliance while delivering easy installation, maintenance, and commissioning through smart sensor technology, providing an array of events back to the user. This long-life detector will ensure your application is running safely at all times.




Macurco AireShield




AireShield Remote Housing

## 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

## 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 Sensor Guide |
| Sensor Range | Sensor Specific - Refer to AireShield Sensor 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 Sensor Guide |
| Ambient Humidity | 0-95% RH non-condensing |
| Life Expectancy | Refer to AireShield Sensor Guide |
| Warranty | Two year limited warranty |

*Please read manual for more specifications

## 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

## *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, $SF_6$

**Buzzer =** Buzzer / No Buzzer

**AireShield Ordering and Sensor Guide**

**Scan QR to build part number.**

ISO 9001:2015 CERTIFIED

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