# 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.
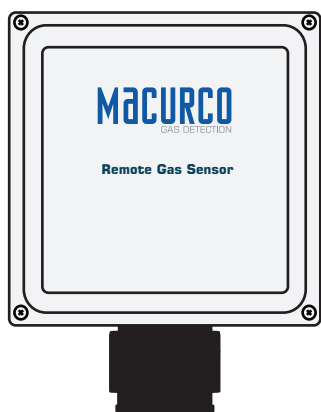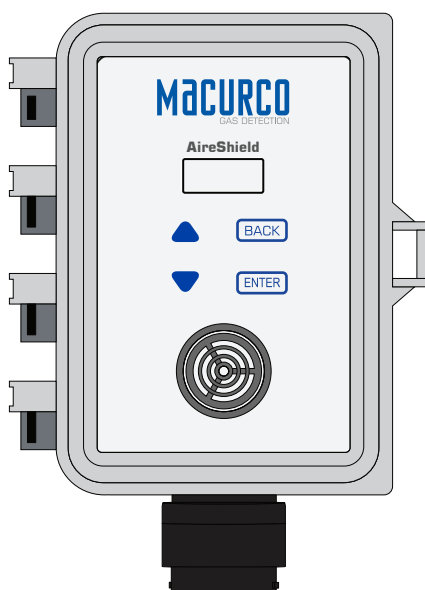
# AIRESHIELD COMING SOON

## POLAR SERIES

The Macurco AireShield Polar Series 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.

### 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)
- 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

MACURCO
GAS DETECTION
AireShield
BACK
ENTER

MACURCO
GAS DETECTION
Remote Gas Sensor

## Specifications

| | |
|---|---|
| Size | 8.25" x 2 5/8" x 5 3/4 |
| Weight | 1 lb. |
| Voltage | 12-24VAC / 9-32VDC |
| Current draw | TBD |
| Alarm Levels | Adjustable |
| Signal | Analog 4-20mA / Digital: Modbus RTU, BACnet MS/TP |
| Sensor Type | NDIR Smart |
| Resolution | 5PPM |
| Sensor Range | 0-5,000PPM |
| Relays | 5 A SPDT and 0.5A |
| Buzzer | >90 dBA at 10ft |
| Visual Indicator | RGB LED's |
| Operating Temperature | -40°F to 140°F (-40°C to 60°C) |
| Ambient Humidity | 0-95% RH non-condensing |
| Certifications: | UL 60335-2-40, UL 61010-1 (pending) |
| Life Expectancy | 10 years |
| Warranty | Two year limited warranty |

*Please read manual for more specifications

## Accessories

| Name | Model Number |
|---|---|
| Control Panels | DVP-120, DVP-120M, DVP-120B, DVP-1200 |
| Horn and Strobe | HS-X  (X = color) Amber (A), Blue (B), Clear (C), Green (G), Red (R) |
| Stobe 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 |
| 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

## HOW TO ORDER

**Series =**   POLAR SERIES

**Gas Type =**   SF6, R1233zd, R-1234yf, R-1234ze, R-125, R-134a, R-143a, R-22, R-227ea, R-32, R-404a, R-407a, R-407c, R-407f, R-410a, R-417a, R-422,d, R-448a, R-449a, R-450a, R-452b, R-454a, R-455a, R-507, R-513a, R-600, R-744, R-422a, R-424a, R-427a, R-434a, R-438a, R-452a, R-454b, R-454c, R-453a, R-442a

**Output =**   Analog / Digital

**Buzzer =**   Buzzer / No Buzzer

**Remote =**   Remote Sensor / No Remote / Dual Remote

ISO 9001:2015 CERTIFIED

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