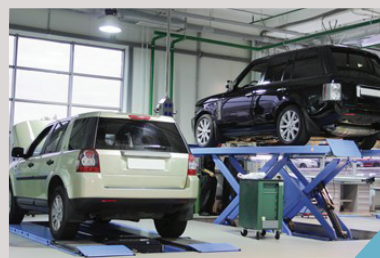# Macurco™

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.

Commercial Series

6-Series (12-24V) & 12-Series (120V) Fixed Gas Detectors

The Macurco 6 & 12 Series fixed gas detectors provide life-saving solutions aimed to protect people and property. These fixed gas detectors are designed for low level detection, mitigation, and notification. Let these detectors do the work for you by shutting off valves, turning on fans, engaging horns and strobes, and provide notification to fire panels and building automation systems when gases reach key limits.

Grey Housing (Standard)

White Housing Option

Key Features

- Easy installation to 4x4 electrical boxes via mud plate
- User selectable settings (Default to industry standards) via two button interface
- 5 A SPDT fan relay, 0.5A alarm relay to control fans, valves, louvers, horn and strobes
- 4-20mA output to control VFD's and send to BMS
- LED display to easily show gas concentrations
- End of life notification
- Field calibration kits available

Applications

- Parking garages
- Mechanical rooms
- Restaurants
- Battery charging stations
- Breweries
- Storage facilities
- Loading docks
- Warehouses
- Firehouses & ambulance bays
- Refrigeration facilities
- Vehicle repair facilities
- Bus depots

www.macurco.com

Specifications

Size	4 1/2 x 4 x 2 1/8 in. (11.4 X 10.2 X 5.4 cm)
Weight	1 pound (0.45 kg)
Voltage/Current	**6-Series** Power: 3 W (max) from 12 to 24 VAC or 12 to 32 VDC :Current @ 24 VDC: 75 mA in alarm, 50 mA fan relay on and 23 mA stand by **12-Series** Power: 100-240 VAC (50 to 60 HZ) Current: 1.0 A MAX
Operating Temperature	-4°F to 122°F (-20°C to 50°C) *CD-6/12H* 32°F to 122°F (0°C to 50°C)
Ambient Humidity	10-90% RH non-condensing
Display	LED (can turn on/off)
Current Loop	Analog: 4-20mA MRS-485: Digital Modbus adapter BRS-485: BMS communication
Mounting	4" x 4" electrical box
Relays	5A Fan relay & 0.5A alarm relay User adjustable settings
Certifications	ETL Listed ETL Intertek *See detector manual for additional certifications
Warranty	Two year limited warranty

Accessories

Name	Model Number
Control Panels	DVP-120, DVP-120M, DVP-120B, DVP-1200
Adapter Options	MRS-485, BRS-485
Horn and Strobe (4 color options)	HS-A, HS-B, HS-R, HS-C
Duct Mount Kit	DMK-1
Weatherproof Housing Kit	WHK-1
Step-down Transformers	PS-24, PS-24-H
Calibration Kits	Based on Gas Type

Horn and Strobe

Control Panels

Adapter Options

Calibration Kits

Weatherproof Housing Kit
(Detector sold separately)

Model Number	Gas Type	Range (Units)	Low Level Alarm Adjustable (Default)	High Level Alarm Adjustable (Default)	Expected Sensor Life	Recommended Coverage Area*
CX-6 | CX-12	Carbon Monoxide (CO) & Nitrogen Dioxide (NO_2)	(CO) 0-200 PPM (NO_2) 0-20 PPM	Refer to CM-6 (CO) & TX-6-ND (NO_2)	Refer to CM-6 (CO) & TX-6-ND (NO_2)	2 Years**	Up to 7,500 sq. ft.
CM-6 | CM-12	Carbon Monoxide (CO)	0-200 PPM	0, 15, 25, **35**, 50 or 100 PPM	0, 50, 100, 150 or **200** PPM	10 Years	Up to 7,500 sq. ft.
GD-6 | GD-12	Propane (LP) Methane (NG) Hydrogen (H_2)	0-50% LEL	0, 3, 4, 5, 6, 7, 8, 9, **10**, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20% LEL	OFF, 5, 10, 15, **20**, 25% LEL	5 Years	Up to 1,257 sq. ft.
TX-6-ND | TX-12-ND	Nitrogen Dioxide (NO_2)	0-20 PPM	0, 0.5, 0.7, 1.0, 1.2, 1.5, 1.7, 2.0, 2.2, **2.5**, 2.7, 3.0, 3.2, 3.5, 3.7, 4.0, 4.2, 4.5, 4.7, 5.0 PPM	0-20 PPM, (**5 PPM default**)	2 Years**	Up to 7,500 sq. ft.
TX-6-HS | TX-12-HS	Hydrogen Sulfide (H_2S)	0-50 PPM	0, 2, 3, 4, 5, 6, 7, **8**, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 PPM	0, 5, 10, 15, **20**, 25, 30, 35, 40, 45, 50 PPM	2 Years**	Up to 1,257 sq. ft.
TX-6-AM | TX-12-AM	Ammonia (NH_3)	0-100 PPM	0, 15, 20, **25**, 30, 35, 40, 45, 50, 55, 60, 65, 70, or 75 PPM	0, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, **75**, 80, 85, 90, 95 or 100 PPM	2 Years**	Up to 1,257 sq. ft.
OX-6 | OX-12	Oxygen (O_2)	0-25 % V/V	0, 18, 18.1… , **20.2**, 20.3, 20.4 & 20.5% v/v & high 23.5 % v/v (preset)	0, 18.5, 19, **19.5**, 20, 20.5 and high 23.5 % v/v (preset)	2 Years**	Up to 1,257 sq. ft.
RD-6 | RD-12	Refrigerant (R-22, R-134A, R-404A, R-407C, R-410A)	0-1,000 PPM	1000 PPM	1000 PPM	7 Years	Up to 1,257 sq. ft.
CD-6H | CD-12H (Auto Cal) CD-6MC | CD-12MC (Manual Cal)	Carbon Dioxide (CO_2)	0-5,000 PPM	0, 600, 700, 800, 900, **1000**,1100... 2000... to 5000 PPM	0, 900, 1000, 1100...**4000** ... to 5000 PPM	15 Years	Up to 5000 sq. ft.
CD-6G (24V Only)	Carbon Dioxide (CO_2)	0-5% V/V	OFF, 0.09, 0.1... **0.2**...0.25, 0.50, 1.00, 1.50, 2.00, 2.50, 3.00, 3.50, 4.00	OFF, 0.09, 0.1... 0.2...0.25, **0.50**, 1.00, 1.50, 2.00, 2.50, 3.00, 3.50, 4.00	15 Years	Up to 5000 sq. ft.

** Replaceable Sensor

*Coverage Area is Application Dependent

ISO 9001:2015 CERTIFIED

Macurco Gas Detection
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Sioux Falls, SD 57104   **Phone:** 1-877-367-7891   **Website:** www.macurco.com   **Email:** info@macurco.com