

TECHNICAL DATA SHEET

Note: For safe, efficient blasting, read and follow the owner's manual and seek training for everyone who will use this equipment.

Purpose

The CMS monitor detects carbon monoxide and hydrocarbons in a compressed air supply and triggers visual and audible alarms when CO is detected in concentrations of 10 parts per million. CMS-1 is wall-mountable; CMS-2 is field-portable with integral rugged carrying case.

NOTE: CMS monitors do not remove CO or convert CO to CO_2 .

Requirements for Operation

- Compressed-air source (55 to 145 psi) of Grade D breathing air as defined by the Compressed Gas Association commodity specification: G-7.1 (www.cganet.net).
- Air flow of 0.5 to 0.8 scfh at 55 psi or more to operate and maintain adequate sampling
- Power 120 volt AC or 12 volt DC. Line cord provided for 120 volt AC; may be conduit wired.

Description of Operation

Connect the CMS to the air supply and to an electric power source. The system warms up and stabilizes in about five minutes.

Once stabilized, the unit is operational and continuously monitors the incoming air. The indicator light glows green to indicate adequate air pressure and flow, and that the CO concentration is below 10 ppm. The alarm light glows yellow, and a loud, intermittent alarms sounds if air flow or pressure drops.

The air-quality light turns red and the CMS sounds a loud, constant alarm if CO reaches 10 ppm. To prevent CO poisoning the operators must immediately remove their respirators and exit the blast environment.

Once the source of CO has been located, and corrected, the CMS will continue to monitor the air and will glow green automatically when the CO has passed out of the air supply.

Description

Carbon monoxide monitor and alarm for breathing air supplied from a compressed air source. Features warning lights, highdecibel audible alarm, particulate/oil filter, and connections for optional remote alarm and shutdown devices. Unit monitors air supply; can serve multiple respirators.



Model CMS-2 Field-Portable



CMS Remote Alarm

Advantages

- One monitor can serve multiple respirators
- Microprocessor circuit and digital readout provide accurate readings
- Simple, rugged construction for inplant or field use
- Manual calibration accomplished in minutes
- Long-lasting replaceable sensor
- May be used with 120 volt AC or 12 volt DC power source
- Accommodates optional remote alarm

Approvals and Certifications

• Meets OSHA requirement for CO monitoring

CMS Series Carbon Monoxide Alarms

Model CMS-1 Wall-Mountable, with Calibration Kit: Stock No. 23017

Model CMS-2 Field-Portable, with Calibration Kit: Stock No. 22894



Model CMS-1 Wall-Mountable

Specifications

- Shielded to reject radio frequency interference
- Includes 10 feet of 1/8-inch tubing and connector fittings
- Electrochemical sensor responds instantly to CO
- CMS-1 has polycarbonate case with impact-resistant clear plastic cover meets NEMA-4 specifications
- CMS-2 has polyethylene case with dual hinges, dual latches, and dusttight, weather-resistant rubber seal
- Nominal noise rating of 98 dB at distance of one foot for the standard alarm; and 100 dB at distance of 3.1 feet for the optional remote alarm.

Options and Accessories

HumidifierStock No. 03600
Remote alarm kit includes: remote alarm, stand, wiring connector, and 50-ft. cord.....Stock No. 22909
Remote alarm extension cordStock No. 22910

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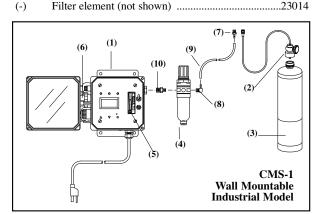


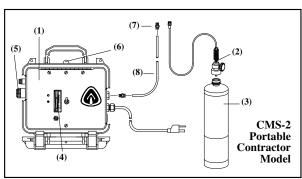
Related Clemco Literature

Description	Stock No.
Operator Safety Equipment	07764
CMS-1 Owners Manual	23301
CMS-2 Owners Manual	22925

Replacement Parts

replacement 1 at 65					
Item	Description	Stock No.			
(-)	CMS-1 CO monitor package, includes:				
	monitor, calibration connector, and				
	10 PPM test gas	23017			
1.	CMS-1 CO monitor includes:				
	monitor and items 4 to 10	23012			
2.	Calibration connector assembly	23011			
3.	Test gas10 PPM	22865			
	Test gas, impurity free	11132			
4.	Regulator /Filter	23013			
5.	Flowmeter				
6.	Horn w/ wire, 12 Volt DC	22922			
7.	Adaptor, straight, 1/8" NPT x 1/8" barb	11732			
8.	Adaptor, elbow, 1/8" NPT x 1/8" barb				
9.	Tubing, urethane, per foot				
10.	Reducer, 1/4" x 1/8"	02026			
(-)	Sensor (not shown)	23015			
(-)	Filter element (not shown)				





Color: CMS-2: black case w/ white graphic front

CMS-1: gray metal enclosure w/ white graphic front

Optional Remote Alarm: gray metal

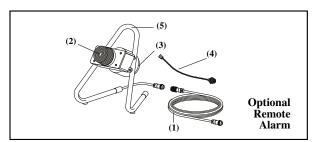
Item Description

Stock No.

(-) CMS-2 CO monitor/alarm package, includes: monitor, calibration connector, and 10 PPM test gas.

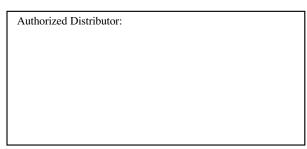
	120 V AC	22894
	12 V DC	25024
1.	CMS-2 CO monitor/alarm (instrument only)	22892
	120 V AC	22892
	12 V DC	25072
	220 V AC	25532
2.	Calibration connector assembly	22893
3.	Test gas10 PPM	22865
	Test gas, impurity free	11132
4.	Flowmeter	21376
5.	Horn w/ wire, 12 Volt DC	
6.	Alarm light, exterior w/ wire	22923
7.	Fitting, 1/4" OD, quick fit	22924
8.	Tubing, urethane, per foot	12475
(-)	Sensor (not shown)	22919
(-)	Regulator/filter (not shown)	22920
(-)	Filter element (not shown)	22921
(-)	Air-line humidifier	03600

Optional Remote Alarm



Packaging: Ships in one carton with owner's manual.

Stock No.	Dimensions S	hip	ping Wt.
23017	7-1/2" H x 7 1/2" W x 5-1/2	" D	8 lb
23012	7-1/2" H x 7 1/2" W x 5-1/2	" D	6 lb
22894	9-1/4" H x 10 3/8" W x 5" D)	9 lb
22892	9-1/4" Н x 10 3/8" W x 5" Г)	7 lb



ISO 9001 certified. Clemco is committed to continuous product improvement. Specifications are subject to change without notice.

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