

ChemLogic® CL4 / CL8 Continuous Gas Detection System

DOD Technologies

The ChemLogic® CL4/CL8 Continuous Gas Detection System is our flagship monitor for multipoint, low-maintenance colorimetric gas detection.

The CL4/CL8 provides interference-free toxic gas monitoring and detection at extremely low-levels. It is simple to install, and easy to maintain.

The system utilizes 1/4" tubing to easily upgrade from legacy sample draw systems. Simply plug in your existing 1/4" tubing and you're ready to go. Each detector comes equipped with relay & analog outputs and can also be digitally integrated.



Features & Benefits

FEATURES	BENEFITS
Intelligent Optics	Reduced maintenance with more accurate readings
Optimized Flow System	Faster response time
Long-Life Cassettes	Colorimetric tape cassettes that can last up to 4 months, reducing operating cost
SSD Memory Card	Easily retrievable data
Trend Display	Obtain information quickly in real-time
Complete Front Access	Easy to service
Touch Control	Easy to start-up and operate
Remote Mountable I/O	Reduced cost of installation
Four or Eight Points	Flexible / expandable systems

Installation Dimensions (in inches)

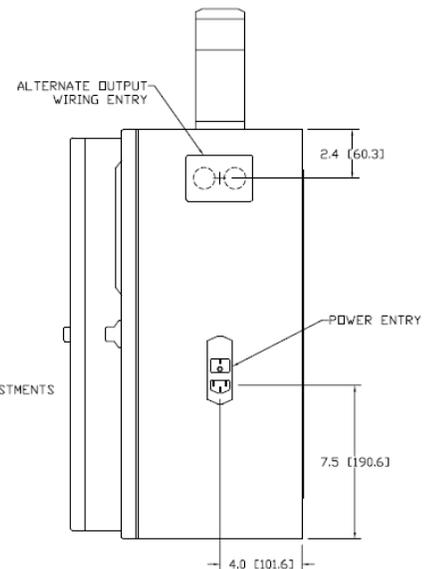
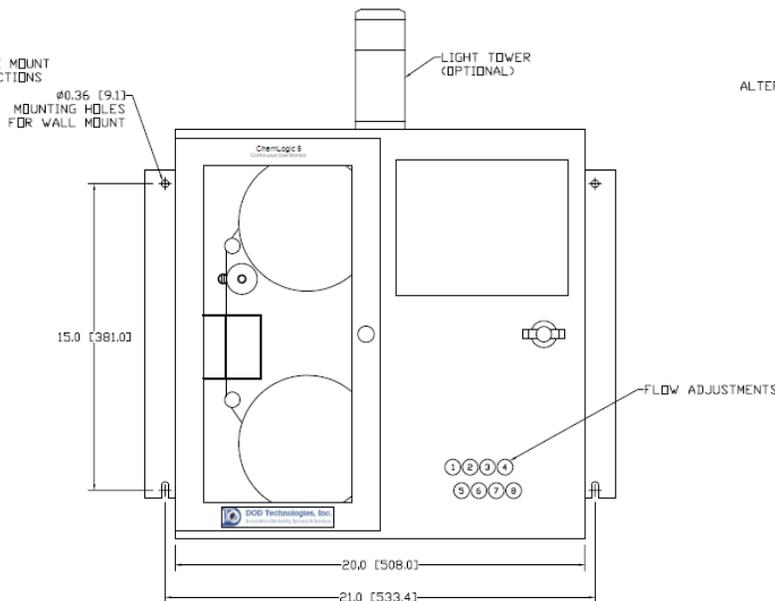
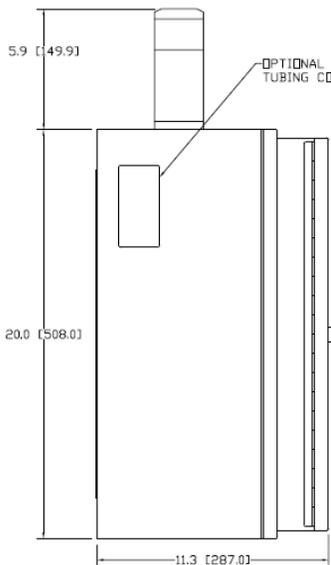
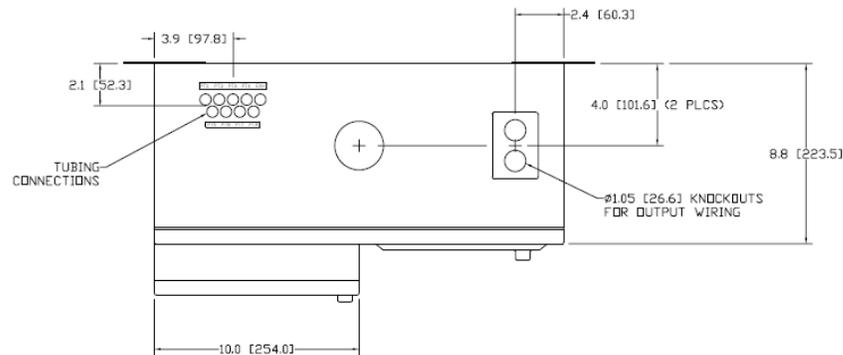
CL8 INSTALLATION DIAGRAM

OPERATING VOLTAGE
 100/115 VAC (41D) 50/60 HZ <1.0 AMPS
 230 VAC (#10) 50/60 HZ <0.5 AMPS

PLEASE ALLOW 4" MINIMUM SPACING (LEFT AND RIGHT SIDES) TO ALLOW DOOR SWING AND POWER PLUG CLEARANCE.

SAMPLE TUBING POINTS 1-8
 PEP TEFLO
 1/4" OD X 3/8" ID X 300' (91 MTRS)

EXHAUST TUBING
 POLYETHYLENE
 3/8" OD X 1/2" ID X 25' (7.5 MTRS)





Specifications

Model / Detection Principle	CL4 and CL8 / Colorimetric
Monitoring Points	4 (CL4), 4 or 8 (CL8)
Gas Families	Ammines, Hydrides, Mineral Acids, Oxidizers
Sample Distance	300 ft. (91m) - 1/4" OD x 3/16" ID Teflon FEP tubing
Exhaust Tubing	25 ft. (7.62m) - 3/8" OD x 1/4" Poly-E tubing
Display	8" Color Touchscreen
Local Alarm Indication	Visual on display and audible (with light tower)
Relay Outputs	Programmable low and high-level faults
Operating Temperature	40°F to 104°F / 4°C to 40°C
Operating Voltage	100 - 115VAC (50/60 Hz), 230VAC (50/60 Hz)
Power Consumption	Less than 1 Amp
Enclosure	Powder coated steel
Dimensions	20"H x 20"W x 11.3"D (508mm x 508mm x 287mm)
Weight	65 lb. (29.48 kg)

Detectable Gases

Ammines

Ammonia (NH3) 0-150 ppm

Hydrides

Arsine (AsH3) 0-50ppb
 Arsine (AsH3) 0-500 ppb
 Diborane (B2H6) 0-1,000 ppb
 Germane (GeH4) 0-2,000 ppb
 Hydrogen Selenide (H2Se) 0-25 ppm
 Hydrogen Selenide (H2Se) 0-500 ppm
 Phosphine (PH3) 0-300 ppb
 Phosphine (PH3) 0-3,000 ppb
 Silane (SiH4) 0-50 ppm
 Stibene (SbH3) 0-300 ppb
 TBA 0-500 ppb

Oxidizers

Chlorine (Cl2) 0-2,000 ppb
 Chlorine (Cl2) 0-3,200 ppb
 Chlorine (Cl2) 0-5,000 ppb
 Fluorine (F2) 0-10,000 ppb
 Nitrogen Dioxide (NO2) 0-30 ppm
 Nitrogen Dioxide (NO2) 0-100 ppm

Mineral Acids

Boron Trifluoride (BF3) 0-150 ppm
 Hexafluorocyclobutene (C4F6) 0-40 ppm*
 Hydrogen Bromide (HBr) 0-20 ppm
 Hydrogen Chloride (HCl) 0-20 ppm
 Hydrogen Fluoride (HF) 0-20 ppm
 Nitric Acid (HNO3) 0-6 ppm
 Nitrogen Trifluoride (NF3) 0-20 ppm*
 Octafluorocyclopentene (C5F8) 0-15 ppm*
 Sulfuric Acid (H2SO4) 0-750 ppb

Other

Acetic Acid (CH3COOH) 0-50 ppb
 Bromine (Br) 0-1,000 ppb
 Carbonyl Sulfide (COS) 0-20 ppm
 Hydrazine (N2H4) 0-500 ppb
 Hydrogen Cyanide (HCN) 0-2,500 ppb
 Methylene Isocyanate (MIC) 0-10 ppm
 Phosgene (COCl2) 0-1,000 ppb
 Phosgene (COCl2) 0-1,000 ppb
 Phosgene (COCl2) 0-1,000 ppb
 TDMAT 0-5,000 ppb

* Pyrolyzer Required - Detected as Hydrogen Fluoride after pyrolyzation



REALIBILITY & SUPPORT

DOD Technologies is the global leader in low level gas detection systems and solutions. We understand the importance of keeping your business operational and know that that false alarms can cost millions of dollars in lost productivity.

We offer a comprehensive line of ChemLogic® gas detection products, engineered to an enhanced standard of accuracy and reliability. Our worldwide network of knowledgeable service engineers are also ready to assist you with a passion for gas detection. The DOD Technologies portfolio includes fixed systems, portable gas detectors, controllers, systems integrations and on-site field services.

For more information, or to order, please visit us at DODtec.com.



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