



DOD Technologies ChemLogic® CL1 & CL2 Continuous Gas Detectors

DOD Technologies

ChemLogic [CL1 Single-Point](#) and [CL2 Dual-Point](#) Continuous Gas Detectors provide fast, field-proven response of low-level toxic and corrosive gases. These systems are interference free, offering reliable, low-maintenance colorimetric gas detection.

Utilizing ¼" tubing, most detectable gas samples can be drawn up to 150 ft (45m) or 6" max for diisocyanate applications.

The CL1 and CL2 comes equipped with relay & analog outputs and can also be integrated digitally.

With simple 'plug-and-play' installation, these innovative gas detection systems offer advanced technology to help ensure the safety and productivity of your facility.



CL1 and CL2 systems utilize ChemLogic® colorimetric tape cassettes.



CONTINUOUS



MONITORING

LOW



MAINTENANCE

POLYUREATHANE



FOAM MONITORING

CLASS I DIV 1



WITH Z-PURGE



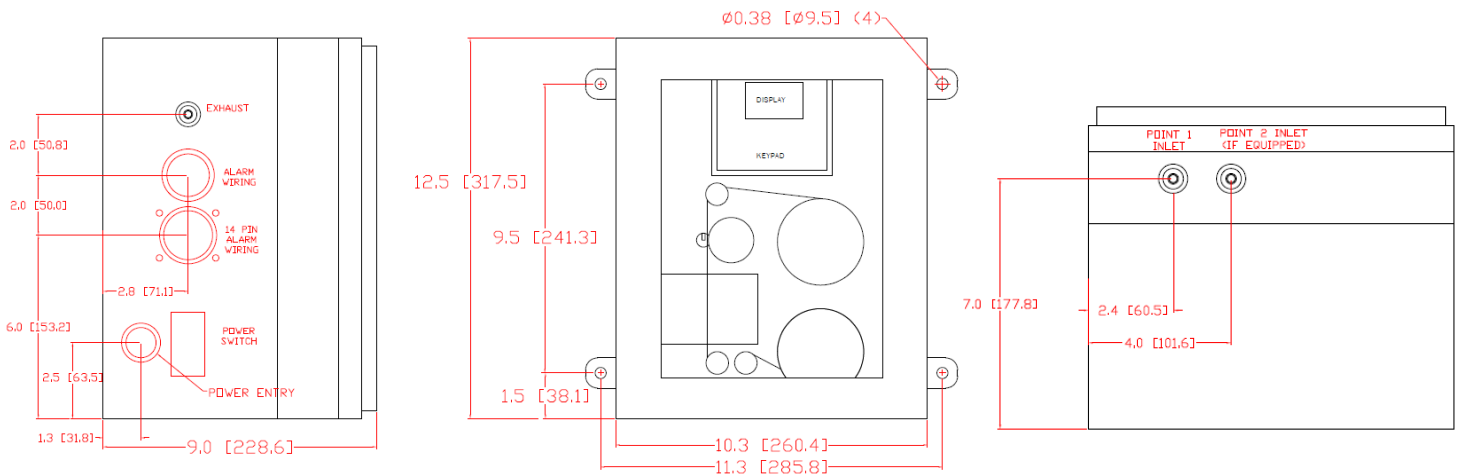
System Options and Dimensions



Z-Purge Option for Class I, Division 1 Compliance



Shown with optional side mounted light/audible alarm and optional large display (ideal for outdoor applications or when visibility at a distance is required)



Side View

Front View

Inlet View

Features & Benefits

FEATURES	BENEFITS
New intelligent optics	Reduced maintenance with more accurate results
Optimized flow system	Faster response time
2-month cassette	Reduced operating cost
SD memory card	Easily retrievable data
Real time display	Quick real time information
Complete front access	Easy to service
Touch control	Easy to start-up and operate
Compact size	Simple to install in convenient locations
Remote reset	Ideal for process applications
Tape saver mode	Reduces tape usage during high concentrations



Specifications

Model / Detection Principle	CL1 / CL2 ChemLogic® colorimetric technology
Monitoring Points	1 or 2
Sample Distance	150 ft. (45m) - ¼" OD, 1/8" ID Teflon FEP tubing, 6" max for diisocyanate applications
Exhaust Tubing	25 ft. (7.5m) - ¼" OD, 3/16" ID
Display	HMI
Local Alarm Indication	Visual HMI display (optional light tower available)
Relay Outputs	5 Amp Form C - programmable low and high-level faults
Operating Temperature	40°F to 104°F / 4°C to 40°C
Operating Voltage	100 - 260VAC (50/60Hz)
Power Consumption	Less than 1 Amp
Enclosure*	NEMA 4x
Analog Output	4-20ma (500-ohm Max Independence)
Dimensions	12.5"H x 10.3"W x 9"D (317.5mm x 260mm x 228mm)
Weight	38 lb. (17.24 kg)

* Please allow 4" minimum spacing on the left side to allow door swing

Detectable Gases

Hydrides

Arsine (AsH ₃)	0-50ppb
Arsine (AsH ₃)	0-500 ppb
Diborane (B ₂ H ₆)	0-1,000 ppb
Germane (GeH ₄)	0-2,000 ppb
Hydrogen Selenide (H ₂ Se)	0-500 ppm
Hydrogen Sulfide (H ₂ S)	0-20 ppm
Hydrogen Sulfide (H ₂ S)	0-90 ppb
Hydrogen Sulfide (H ₂ S)	0-500 ppb
Hydrogen Sulfide (H ₂ S)	0-1500 ppb
Phosphine (PH ₃)	0-1500 ppb
Silane (SiH ₄)	0-50 ppm
Stibine (SbH ₃)	0-500 ppb

Oxidizers

Chlorine (Cl ₂)	0-3,200 ppb
Fluorine (F ₂)	0-3,200 ppb
Nitrogen Dioxide (NO ₂)	0-30 ppm

Mineral Acids

Boron Trifluoride (BF ₃)	0-3200 ppb
Hydrogen Bromide (HBr)	0-20 ppm
Hydrogen Chloride (HCl)	0-15 ppm
Hydrogen Fluoride (HF)	0-10 ppm
Nitric Acid (HNO ₃)	0-6 ppm
Sulfuric Acid (H ₂ SO ₄)	0-750 ppb

Diisocyanates

HDI	0-100 ppb
HMDI	0-100 ppb
IPDI	0-100 ppb
MDI	0-100 ppb
MDI	0-200 ppb
TDI	0-100 ppb
TDI	0-200 ppb
CHDI	0-100 ppb

Other

Ammonia (NH ₃)	0-75 ppm
Bromine (Br ₂)	0-1,000 ppb
Carbonyl Sulfide (COS)	0-20 ppm
LL Chlorine (CL ₂)	0-30 ppb
Hydrazine (N ₂ H ₄)	0-500 ppb
Hydrogen Cyanide (HCN)	0-2,500 ppb
Methylene Isocyanate (MIC)	0-100 ppm
Methylene Isocyanate (MIC)	0-10 ppm
Phosgene (COCl ₂)	0-300 ppb
Phosgene (COCl ₂)	0-900 ppb
Phosgene (COCl ₂)	0-1000 ppb
Phosgene (COCl ₂)	0-3000 ppb
Phosgene (COCl ₂)	0-4000 ppb
Sulfur Dioxide (SO ₂)	0-2500 ppb
Toluene Diamine (TDA)	0-60 ppb



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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