



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 1/4" 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



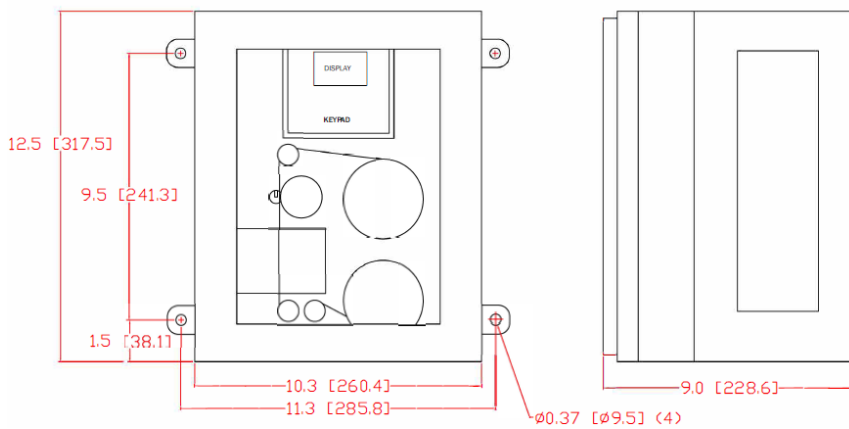
System Options and Dimensions



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.



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" for diisocyanates |
| Exhaust Tubing | 25 ft. (7.62m) - 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 | 85 - 264VAC (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) |

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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