



Portable, flexible and interference free toxic gas detection

ChemKey™ TLD



Advantages

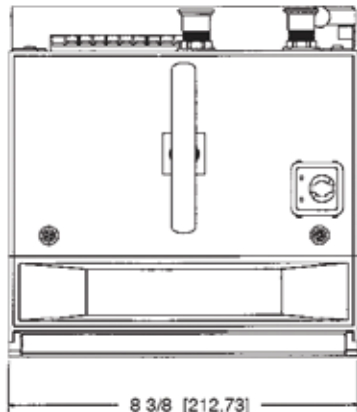
- Portable, flexible and interference free toxic gas detection
- Battery operated or line powered
- Exclusive Chemcassette® detection is gas specific, sensitivity to ppb levels with physical evidence
- Low maintenance and no dynamic gas calibration
- Variety of signals outputs to meet monitoring needs
- Over 50 gases available, ChemKey™ allows switching target gases easily

Applications

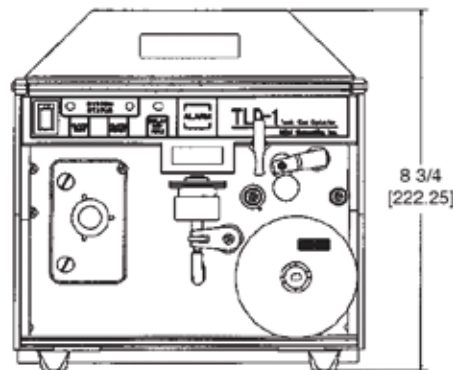
- Emergency response teams
- R & D projects
- Temporary facility monitoring
- Industrial hygiene surveys
- Spill remediation
- Equipment maintenance crews

Option Available

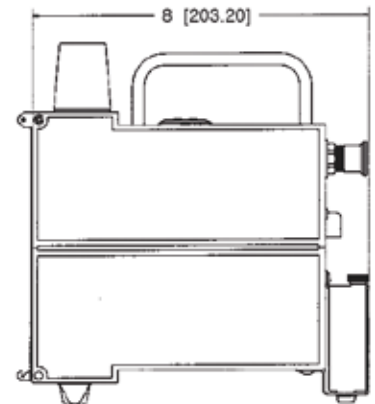
- Strip chart recorders



Top View



Front View



Side View

Technical Specification



Specification	
Detection Technique	Chemcassette® Detection System
Alarm Point	ChemKey™ Gas Selection System provides multiple alarm set points
Response Time	As fast as 10 seconds
Alarm Indication	Audio and visual alarms
Signal Outputs	SPDT concentration alarm relay; SPDT instrument fault relay (failsafe); 4-20mA; digital display
Operating Temperature Range	32° to 104° F; 0° to 40° C
Power Requirements	Battery (Rechargeable, sealed lead-acid) chargers at 115 VAC, 50/60 Hz or 230 VAC, 50/60 Hz available
Dimensions	61/2"(H) x 83/8"(W) x 7"(D); (16.5 x 21.2 x 17.7 cm)
Weight	Approximately 9 pounds; (4.1 kg)
Detectable gases	Range
Amines	
Ammonia (NH ₃)*	2.6-75.0 ppm
Ammonia (NH ₃)-II	2.6-75.0 ppm
Methylene Dianiline (MDA)	3-60 ppb
n-Butylamine (n-BA)	0.4-12.0 ppm
p-Phenylene Diamine (PPD)	2-60 ppb
Toluene Diamine (TDA)	4-60 ppb
Trimethylamine (TMA)	1.1-30.0 ppm
Diisocyanates	
CHDI, HDI, HMDI, IEM, IPDI, MDI, NDI, PPDi, TDI, TMDI, TMXDI, XDI	2-60 ppb
Hydrazines	
MMH*	21-600 ppb
N ₂ H ₄	20-300 ppb
UDMH*	53-1500 ppb
Hydrides	
Arsine (AsH ₃)	15-150 ppb
Diborane (B ₂ H ₆)	31-300 ppb
Disilane (Si ₂ H ₆)	1.5-15 ppm
Germane (GeH ₄)	141-600 ppb
Hydrogen Selenide (H ₂ Se)	20-150 ppb
Phosphine (PH ₃)	32-900 ppb
Silane (SiH ₄)	0.5-15 ppm
Stibine (SbH ₃)	20-300 ppb
tert-Butylarsine (TBA)	15-150 ppb
tert-Butylphosphine (TBP)	60-900 ppb
Hydrogen Cyanide (HCN)*	1.1-30.0 ppm
Hydrogen Sulfide (H2S)	1.1-30.0 ppm
Hydrogen Sulfide (H2S)	Low Level 1-90 ppb
Mineral Acids	
Hydrogen Bromide (HBr)	0.3-9.0 ppm
Hydrogen Chloride (HCl)	0.5-15.0 ppm
Hydrogen Fluoride (HF)	0.6-9.0 ppm
Nitric Acid (HNO ₃)	0.2-6.0 ppm
Sulfuric Acid (H ₂ SO ₄)*	26-750 ppb
Oxidizers	
Bromine (Br ₂)	11-300 ppb
Chlorine (Cl ₂)*	0.1-3.0 ppm
Chlorine (Cl ₂)-II	0.5-1.5 ppm
Chlorine Dioxide (ClO ₂)	11-300 ppb
Hydrogen Peroxide (H ₂ O ₂)	0.1-3.0 ppm
Nitrogen Dioxide (NO ₂)	0.3-9.0 ppm
Ozone (O ₃)	31-300 ppb
Phosgene (COCl₂)	11-300 ppb
Sulfur Dioxide (SO₂)	0.2-6.0 ppm

* other ranges available

Honeywell Analytics Lines of Business



Commercial

Gas detection from standalone units to fully engineered, multi-point systems, all offering cost-effective regulatory compliance

- » Applications: parking structures, chillers, mechanical rooms, office towers, commercial buildings, shopping centers, swimming pools, golf courses, schools and universities, laboratories

Industrial

Renowned Sieger and Manning gas detection systems with advanced electrochemical, infrared and open path sensing technologies

- » Applications: oil and gas, cold storage, water/wastewater treatment, chemicals, engine rooms, plastics and fibers, agriculture, printing and light industrial

Portables

Single or multi-gas Lumidor and other premium detectors with compact, lightweight designs ranging from simple alarm only units to advanced, fully configurable and serviceable instruments

- » Applications: underground utility and electricity ducts, boiler rooms, post-fire sites, sewers, industrial plants, industrial hygiene, first responder teams, remote fleets



Find out more

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