



Portable, flexible and interference free toxic gas detection

ChemKey™ TLD



Advantages

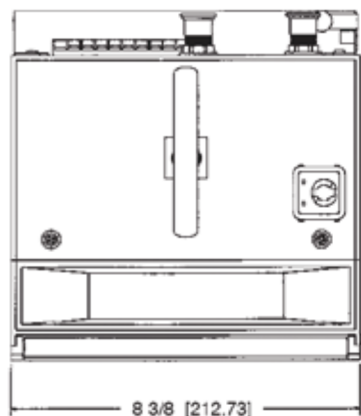
- Portable, flexible and interference free toxic gas detection
- Battery operated or line powered
- Exclusive Chemcassette® detection is gas specific, sensitivity to ppb levels with physical evidence
- Low maintenance and no dynamic gas calibration
- Variety of signals outputs to meet monitoring needs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

Applications

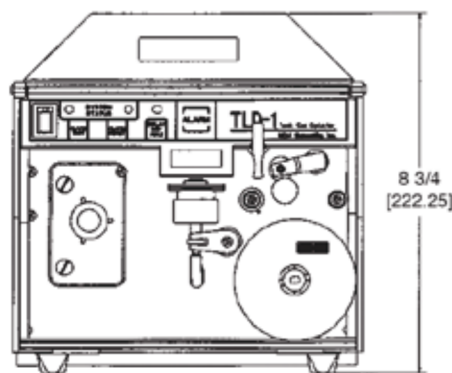
- Emergency response teams
- R & D projects
- Temporary facility monitoring
- Industrial hygiene surveys
- Spill remediation
- Equipment maintenance crews

Option Available

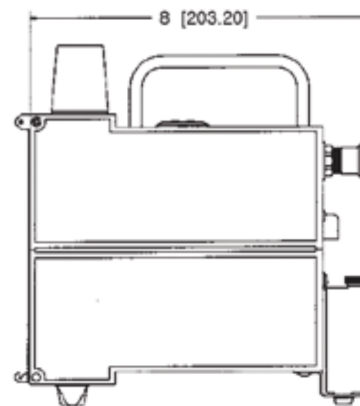
- Strip chart recorders



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	6 1/2" (H) x 8 3/8" (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, PPD, 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	