



**Portable, flexible and interference free toxic gas detection**

# ChemKey™ TLD



## Advantages

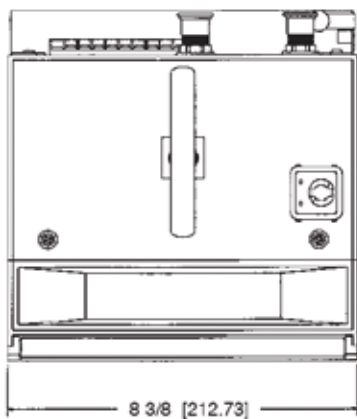
- Portable, flexible and interference free toxic gas detection
- Battery operated or line powered
- Exclusive Chemcassette® detection is gas specific, sensitivity to ppb levels with physical evidence
- Low maintenance and no dynamic gas calibration
- Variety of signals outputs to meet monitoring needs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

## Applications

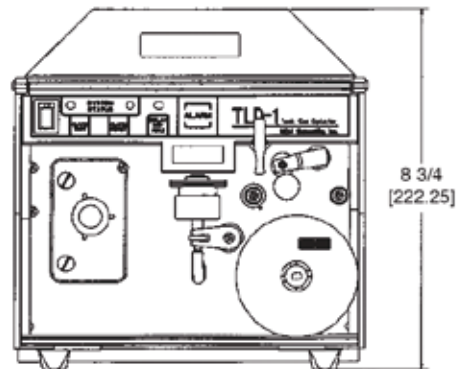
- Emergency response teams
- R & D projects
- Temporary facility monitoring
- Industrial hygiene surveys
- Spill remediation
- Equipment maintenance crews

## Option Available

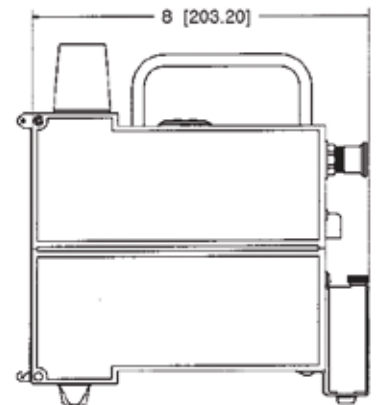
- Strip chart recorders



Top View



Front View



Side View

# Technical Specification



Specification	
<b>Detection Technique</b>	Chemcassette® Detection System
<b>Alarm Point</b>	ChemKey™ Gas Selection System provides multiple alarm set points
<b>Response Time</b>	As fast as 10 seconds
<b>Alarm Indication</b>	Audio and visual alarms
<b>Signal Outputs</b>	SPDT concentration alarm relay; SPDT instrument fault relay (failsafe); 4-20mA; digital display
<b>Operating Temperature Range</b>	0° to 40°C, 32° to 104°F
<b>Power Requirements</b>	Battery (Rechargeable, sealed lead-acid) chargers at 115VAC, 50/60Hz or 230VAC, 50/60Hz available
<b>Dimensions</b>	165 x 212 x 177mm (6½ x 8½ x 7") (H x W x D)
<b>Weight</b>	Approximately 4.1kg (9lbs)
Detectable gases	Range
<b>Amines</b>	
Ammonia (NH <sub>3</sub> )*	2.6-75.0ppm
Ammonia (NH <sub>3</sub> )-II	2.6-75.0ppm
Methylene Dianiline (MDA)	3-60ppb
n-Butylamine (n-BA)	0.4-12.0ppm
p-Phenylene Diamine (PPD)	2-60ppb
Toluene Diamine (TDA)	4-60ppb
Trimethylamine (TMA)	1.1-30.0ppm
<b>Diisocyanates</b>	
CHDI, HDI, HMDI, IEM, IPDI, MDI, NDI, PPDI, TDI, TMDI, TMXDI, XDI	2-60ppb
<b>Hydrazines</b>	
MMH*	21-600ppb
N <sub>2</sub> H <sub>4</sub>	20-300ppb
UDMH*	53-1500ppb
<b>Hydrides</b>	
Arsine (AsH <sub>3</sub> )	15-150ppb
Diborane (B <sub>2</sub> H <sub>6</sub> )	31-300ppb
Disilane (Si <sub>2</sub> H <sub>6</sub> )	1.5-15ppm
Germane (GeH <sub>4</sub> )	141-600ppb
Hydrogen Selenide (H <sub>2</sub> Se)	20-150ppb
Phosphine (PH <sub>3</sub> )	32-900ppb
Silane (SiH <sub>4</sub> )	0.5-15ppm
Stibine (SbH <sub>3</sub> )	20-300ppb
tert-Butylarsine (TBA)	15-150ppb
tert-Butylphosphine (TBP)	60-900ppb
<b>Hydrogen Cyanide (HCN)*</b>	1.1-30.0ppm
<b>Hydrogen Sulfide (H<sub>2</sub>S)</b>	1.1-30.0ppm
<b>Hydrogen Sulfide (H<sub>2</sub>S)</b>	Low Level 1-90ppb
<b>Mineral Acids</b>	
Hydrogen Bromide (HBr)	0.3-9.0ppm
Hydrogen Chloride (HCl)	0.5-15.0ppm
Hydrogen Fluoride (HF)	0.6-9.0ppm
Nitric Acid (HNO <sub>3</sub> )	0.2-6.0ppm
Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )*	26-750ppb
<b>Oxidizers</b>	
Bromine (Br <sub>2</sub> )	11-300ppb
Chlorine (Cl <sub>2</sub> )*	0.1-3.0ppm
Chlorine (Cl <sub>2</sub> )-II	0.5-1.5ppm
Chlorine Dioxide (ClO <sub>2</sub> )	11-300ppb
Hydrogen Peroxide (H <sub>2</sub> O <sub>2</sub> )	0.1-3.0ppm
Nitrogen Dioxide (NO <sub>2</sub> )	0.3-9.0ppm
Ozone (O <sub>3</sub> )	31-300ppb
<b>Phosgene (CoCl<sub>2</sub>)</b>	11-300ppb
<b>Sulfur Dioxide (SO<sub>2</sub>)</b>	0.2-6.0ppm

\* other ranges available

# Our Product Range



## Fixed Gas Monitoring

Honeywell Analytics offers a wide range of fixed gas detection solutions for a diverse array of industries and applications including: Commercial properties, industrial applications, semiconductor manufacturers, energy plants and petrochemical sites.

- » Detection of flammable, oxygen and toxic gases (including exotics)
- » Innovative use of 4 core sensing technologies – paper tape, electrochemical cell, catalytic bead and infrared
- » Capability to detect down to Parts Per Billion (ppb) or Percent by Volume (%v/v)
- » Cost effective regulatory compliance solutions

## Portable Gas Monitoring

When it comes to personal protection from gas hazards, Honeywell Analytics has a wide range of reliable solutions ideally suited for use in confined or enclosed spaces.

These include:

- » Detection of flammable, oxygen and toxic gases
- » Single gas personal monitors – worn by the individual
- » Multi-gas portable gas monitors – used for confined space entry and regulatory compliance
- » Multi-gas transportable monitors – used for temporary protection of area during site construction and maintenance activities

## Technical Services

At Honeywell Analytics, we believe in the value of great service and customer care. Our key commitment is providing complete and total customer satisfaction. Here are just a few of the services we can offer:

- » Full technical support
- » Expert team on hand to answer questions and queries
- » Fully equipped workshops to ensure quick turnaround on repairs
- » Comprehensive service engineer network
- » Training on product use and maintenance
- » Mobile calibration service
- » Customised programmes of preventative/corrective maintenance
- » Extended warranties on products

### Find out more

[www.honeywellanalytics.com](http://www.honeywellanalytics.com)

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