

# TLV FALCON

**Portable Photoionization Detector (PID) for  
Volatile Organic Compounds (VOCs)**



- State of the art Photoionization Detector (PID) for the detection of Volatile Organic Compounds (VOCs) such as benzene, toluene, xylene, etc.
- Simple calibration with isobutylene.
- Standard features include a large LED display, 2 alarm setpoints, visual and audible alarm indications, built in sampling system, washable carrying case, and AC adaptor/charger.
- Operates on alkaline or nickel admium batteries, or the AC adaptor/charger.
- Selector switch allows choice of 3 different ranges



**INTERNATIONAL  
SENSOR TECHNOLOGY**

*The Leader In Gas Detection Since 1972*

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# TLV FALCON

## DESCRIPTION:

International Sensor Technology's TLV Falcon is a compact, easy to use, portable monitor which incorporates a photoionization detector (PID) for detection of over 30 Volatile Organic Compounds (VOCs) including benzene, toluene, and xylene. Offering fast response and high sensitivity, photoionization is the preferred method for the detection of VOCs. Refer to the specifications below for a list of gases detected.

The TLV Falcon features a large LED display and 2 alarm setpoints with audible and visual (LED) alarm indications. A selector switch allows you to choose between three available ranges, giving you the flexibility to monitor in a variety of different applications. The unit also includes a built in sampling pump, and a washable carrying case which provides protection and is easy to detox after use.

The TLV Falcon operates on 4 'C' size alkaline or nickel cadmium batteries. The AC adaptor/charger (included) will operate the unit or trickle charge the nickel cadmium batteries when the unit is not in use. If alkaline batteries are used, the AC adaptor/charger simply bypasses them and provides power to the unit. The TLV Falcon will operate for 12 hours on nickel cadmium batteries and 24 hours on alkaline batteries.

## SPECIFICATIONS:

### POWER:

4 'C' Alkaline or Nicad Batteries.

### OPERATING LIFE:

Alkaline Batteries: 24 hours

Nickel Cadmium Batteries: 12 hours

AC Adaptor: Continuous

### SENSOR:

Photoionization Detector (PID) with 10.6 eV lamp

### INDICATORS:

Low, High Alarm LEDs; Active LED.

Low Battery LED; Pump LED.

### DISPLAY:

3 Digit Display.

### CONTROLS:

Power - On/Off. Acknowledge Alarm Button.

Pump - On/Off.

3 Range Selector Switch.

### ALARMS:

2 Alarm Setpoints with LED Indicators

(Low and High Alarm) and Audible Tone.

### SAMPLING METHOD:

Built-in Sample Pump.

### LOW BATTERY:

Continuous Audible Tone Plus LED Indication.

### FAULT:

Continuous Audible Tone and "Active" LED Turns Off.

### TEMP:

-20°C to +50°C Operating.

-20°C to +60°C Storage.

### HUMIDITY:

0 to 99% RH, Non-condensing Continuous.

### CASE:

Aluminum.

### SIZE:

7.75" L x 3.55" W x 4.0" H.

### APPROXIMATE WEIGHT:

3.2 lbs.

## TLV FALCON GAS LIST

Acetone	Isopropanol
Ammonia	JP Fuel A
Benzene	Methylamine
Carbon Disulfide	Methyl Bromide
Chlorobenzene	Methyl Ethyl Ketone
Dichlorobenzene	Methyl Mercaptan
Dichloroethylene	MTBE
Diesel Fuel	Naphtha
Dimethylformamide	Phosphine
Dioxane	Styrene
Ethanol	Tetrachloroethylene
Ethylbenzene	Tetrahydrofuran
Ethylene Oxide	Toluene
Ethyl Ether	Trichloroethylene
Gasoline	Trimethylamine
Hexane	Vinyl Acetate
Hydrazine	Vinyl Bromide
Hydrogen Sulfide	Xylene
Isobutylene	