

# FIELD Environmental Instruments

Equipment Rental and Field Supplies

PERKIN ELMER

Photovac 2020  
Photoionization Detector

*"Your Needs Are Our Business"*

Toll-Free  
800-393-4009



Photovac's Intrinsically safe 2020 Photoionization monitor is ideal for fast detection of toxic gases and vapors in both the workplace and harsh field conditions. This small and light-weight instrument is highly sensitive and built field rugged. Easy-to-use, the 2020 houses an internal pump which draws a sample through the instrument at a rate of 350 ml/minute.

Displays contamination levels on a back-lit display and stores up to 1,000 data points in memory for later downloading. Information is processed through a printer or IBM-compatible PC into Excel for Windows™ or similar spreadsheet in various report formats. Separate audible and visual alarm settings for Peak, TWA and STEL measurements are user-adjustable.

## Features

- .. Highly sensitive, humidity-compensated
- .. "Instant-on" detection system
- .. Detects Benzene at the OSHA Threshold Limit Value of 1 ppm

## SPECIFICATIONS

**Size:** 25.4 cm (10") long, 7.6cm (3") wide, 5cm (2") high  
**Weight:** 0.8kgs (1.75lbs)  
**Detector:** Instant on photoionization detector with standard 10.6eV UV lamp.  
**Keypad:** 6 silicone keys with tactile feedback  
**Status Display:** 2-line, 16-character dot-matrix, backlit, liquid crystal display for alphanumeric readouts and soft key display  
**Meter Display:** 4 digit, 7 segment display for real time concentration readout  
**Datalogger Memory:** 16 kilobytes or 1000 entries  
**Serial Output:** RS-232, 9600 baud, 8 data bits with no parity, for tabular and graphic printouts and connection to an IBM compatible computer  
**Audio Output:** 95 decibels @ 2048 Hz, on Alarm  
**Battery type:** Nickel cadmium rechargeable cell with intelligent charger.  
The battery pack is 24% cadmium (Cd) by weight  
**Charge/discharge time:** 4hr/8hr  
**Battery Charger:** Automatically charges and maintains full charge in battery pack  
**Materials in sample stream:** Stainless steel, Teflon®, Viton®, polypropylene, nitrile chorobutadiene rubber, nickerl  
**Inlet Filter:** Replaceable Teflon/Polypropylene, 1 um  
**Inlet Flow rate:** Greater than 300ml/min  
**Operating temperature Range:** 0 to 40° C (32 to 105°F)  
**Operating humidity range:** 0 to 100% relative humidity (non-condensing)  
**Operating Concentration Range:** 0.5 to 2000ppm, isobutylene  
**Accuracy:** +/-10% or +/-2ppm, whichever is greater  
**Precision:** 1% of calibration (calibrated with 100ppm isobutylene)  
**Response Time:** Less than 3 sec to 90%  
**Detection limit:** 0.5ppm isobutylene  
**Dilution probe:** Normal calibration: concentrations between 100 to 20000ppm +/- 20%  
**High accuracy calibration:** concentrations between 100 to 1000ppm +/- 15%. Concentrations between 1000 to 20000 ppm +/- 20%

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