2020PRO™

Photovac is MORE than instruments.

Photovac delivers PROVEN solutions.

PHOTOVAC, Inc.

SUPERIOR VOC

Rapid VOC detection in air, water and soil in the harshest environments

Stable, linear Photovac PID

The 2020PRO uses photoionization, the technology of choice for detecting VOCs. The 2020PRO is equipped standard with a 10.6 eV UV lamp, and has an optional 11.7 eV UV lamp for ionizing chlorinated compounds. The UV lamp is easy to remove for cleaning or replacement.

Operating concentration range is 0.1-2000 PPM or use the optional dilution probe to detect up to 20,000 PPM. The Photovac photoionization detector is humidity-compensated so you can rely on the results.

Ergonomic design for the real world

A new ergonomic design with textured grip and large keys makes the 2020PRO easy to carry and use, even while wearing triple-layer gloves. The new backlit display is easy to read with large font. All information is clearly displayed on a single 6-line display just like a personal data assistant (PDA).

Effortless data handling

Expanded internal datalogging allows the operator to record 15,000 sampling points that can be downloaded to the PC using new 2020PRO Comm software.

Dedicated calibration key

The new dedicated calibration key provides immediate access to calibration. More prompts walk the end user through the procedure completely for higher confidence in accurate calibration.

Easy to use

Three modes of operation to meet monitoring requirements:

1. **Logging Off** – Continuous readings for survey and site checking.
2. **Tag** – Data logged by tag name or number - ideal for EPA Method 21.
3. **Interval** – Logs at pre-set intervals as well as displaying the TWA, STEL, PEAK and current reading at all times.

Intrinsically safe

Classified as Intrinsically Safe in North America [Class I, Division 1, Groups A, B, C, and D] and Europe, [ATEX II 2 G EEx ib IIC T4] for use in potentially explosive environments.

5th GENERATION Photoionization Monitor with the RUGGEDNESS and RELIABILITY you expect from Photovac

2020PRO

Applications

- Emergency response and HazMat
- Petroleum products tank entry
- Soil headspace screening
- Health and safety monitoring
- Surveying for buried chemical waste
- Aircraft wing tank entry
- Fenceline and perimeter monitoring
- Confined space pre-entry
- Solvent storage and piping
- Transportation vessels
- Storage tank maintenance
- Site characterization
- Ambient air monitoring

2020PRO

Solutions

Emergency Response and HazMat

HazMat and Emergency Response teams require portable, reliable instruments to quickly characterize accidents, spills, and contaminated sites. The 2020PRO PID is ideal in these situations since it is lightweight and easy to use. The 2020PRO provides sample analysis in less than three seconds. Rapid results are vital to responder safety to determine the level of personal protective equipment (PPE) required and the appropriate clean-up actions. Fast evaluation of the contamination present is also crucial to determine the hazard to the surrounding community and establish a safety perimeter around the site.

Health and Safety Monitoring - Personal

The PID is the detector of choice for personal safety monitoring, because it responds best to the more toxic VOCs such as Benzene. The 2020PRO PID is small and lightweight so the instrument can be placed in a belt holster for personal monitoring. The audible and visual alarms for STEL, TWA and real-time levels provide the health and safety professional with a simple and convenient way to alert workers to a potential risk.

Health and Safety Monitoring - Site

The 2020PRO can be used for site monitoring to insure worker safety. In Interval mode, the 2020PRO automatically calculates and records PEAK, STEL and TWA at a user-selected interval. With datalogger capacity of 15,000 data points, the 2020PRO will record data for an entire work shift.

Aircraft Wing Tank Entry

While jet fuels (e.g., JP-8, JP-4, JP-5) are typically a mixture of many complex hydrocarbons, aircraft maintenance workers need measurement of the total concentration of VOCs after draining and ventilating the fuel tank to determine if the environment is safe for entry. The 2020PRO allows workers to quickly determine if respiratory protection is required and to enter the wing tank sooner with confidence. The 2020PRO is ideal for this application, given its ability to measure low PPM levels of VOCs in less than three seconds.

Site Characterization

The 2020PRO PID is ideal for site screening to determine the extent of contamination present by providing the concentration and defining the perimeter. The 2020PRO can monitor a broad range of compounds with the 10.6 eV lamp and optional 11.7 eV lamp. The 2020PRO can be used in field characterization and monitoring potentially hazardous conditions during remediation.

Soil/Water Jar Headspace Screening

The 2020PRO can detect a wide range of VOCs from 0.1 to 2000 PPM, extendible to 20,000 PPM with a dilution probe. Given its broad detection range and capabilities, the 2020PRO is an ideal screening tool of VOCs in soil or water static headspace. Using the 2020PRO in Tag Mode, the 2020PRO PID datalogger allows independent naming and data storage of the Background and Sample from each jar.

PHOTOIONIZATION MONITOR

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Detectable Compounds

Aromatics - Benzene, Toluene, Naphthalene

Unsaturated Hydrocarbons - Acetylene, Ethylene, 1,3-Butadiene

Chlorinated Hydrocarbons - Vinyl chloride, Chloroform, Trichloroethylene, Methylene chloride

Ketones - Acetone, Methyl ethyl ketone, Methyl isobutyl ketone

Alcohols - Methanol, Ethanol, Isopropanol, n-Butanol

Organic Fuels - Gasoline and jet fuels, which are mixtures of hundreds of different compounds including aromatics, are well detected.

Please note: This list provides examples of the classes of compounds detectable by the 2020PRO. Please contact Photovac Technical Support for details on specific compound detection.

For further information on Photovac products, or to arrange a product demonstration, please contact a Photovac representative near you, email us at salesadmin@photovac.com or contact Photovac, Inc.

Specifications

Size
9" (228.6 mm) long x 3" (76.2 mm) deep x 4.25" (107.9 mm) wide at display tapering to 2.6" (66.6 mm) at handle

Weight
1.9 pounds (0.86 kg)

Detector
Instant on photoionization detector with standard 10.6eV lamp, optional 11.7 eV lamp available

Keypad
Two dedicated keys (ON/OFF and CAL) and three menu keys

Display
128 x 64 graphic LCD, 6-line

Datalogger Memory
15,000 data points

Serial Output
RS-232, 9600 baud, 8 data bits, no parity for connection to Windows-based PC

Audio Output
80 decibels @ 2048 Hz, on Alarm

Inlet Connection
1/8"(3.175 mm) compression fitting

Operating Temperature Range
32°F to 105°F (0°C to 40°C)

Operating Humidity Range
0 to 95% relative humidity (non-condensing)

Operating Concentration Range
0.1 PPM to 2,000 PPM isobutylene equivalent
100 PPM to 20,000 PPM isobutylene equivalent with dilution probe

Response Time
Less than 3 seconds, to 90%

Accuracy
± 10 % or ± 2 PPM, whichever is greater

Low Detection Limit
0.1 PPM isobutylene

Battery Capacity
8 hours

Intrinsic Safety
Class I, Division 1, Groups A, B, C, & D
ATEX II 2 G EEx ib IIC T4

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