

# 2020 ComboPRO™

## Portable Photoionization Monitor for VOC Measurement

- Combination Total **VOC** and **Benzene measurement**
- **Large, simultaneous** information display
- **Exceptionally simple** calibration and easy operation
- **Intrinsically safe** and rugged

### Proven PID technology coupled with flexibility

The 2020ComboPRO represents the newest advancement in volatile organic compound (VOC) measurement coupled with operational simplicity. It is designed to respond quickly in emergency response situations while providing plenty of brainpower when you need it for comprehensive data analysis. With its proven photoionization (PID) technology and extended range of 0.1 ppm to 10,000 ppm, the 2020ComboPRO measures a wide variety of chemicals for environmental, industrial hygiene, and emergency response applications. Plus, with the quick connect pre-filter tube assembly, it can measure benzene... a critical compound to identify in many environmental and industrial hygiene monitoring activities.



## Applications

- **Environmental**
  - Site characterization and remediation
  - Leaking underground storage tanks
  - Soil/water jar headspace screening
- **Industrial Hygiene and Safety**
  - Workplace exposure assessments
  - Indoor air quality studies
  - Benzene exposure monitoring
- **HazMat and Homeland Security**
  - Chemical incident response
  - Personal protective equipment assessment
  - Incident perimeter designation and maintenance

### Easy operation

Designed with the field professional in mind, the 2020ComboPRO features a large graphic display that is easy to read, even with a full face respirator, and the large keypad buttons are easy to access even with heavy hazmat gloves. Simultaneous real-time measurements and maximum hold readings provide all the important information you need without switching modes. The 2020ComboPRO provides unsurpassed operational simplicity, and calibration is quick and easy. And, the ease of use doesn't stop there. Our ProComm software lets you download lots of data with the push of a button, offering datalogging and documentation capability.



# Applications



## Emergency Response and Hazmat

Hazmat and Emergency Response Teams require portable, reliable instruments to quickly characterize accidents, spills and contaminated sites. With its quick TVOC response time of less than 3 seconds, results are provided rapidly so immediate decisions can be made regarding the level of protective equipment required and the appropriate clean-up actions.

## Benzene Monitoring

Benzene is a recognized carcinogen and atmospheric pollutant. The 2020ComboPRO can specifically measure for benzene through the quick connect pre-filter tube developed for Photovac by Dräger Safety AG.

## Health and Safety Monitoring

The 2020ComboPRO is the instrument of choice for personal safety monitoring because it responds best to a wide variety of toxic VOC's. Audible and visual alarms for STEL, TWA and real-time Peak levels provide the health and safety professional with the right information to alert workers to potential health risks.

## Soil/Water Jar Headspace Screening

The 2020ComboPRO can detect a wide variety of VOC's from 0.1 ppm to 10,000 ppm, making it an excellent screening tool for VOC's in soil or water static headspace.

## Site Characterization and Remediation

The 2020ComboPRO is ideally suited for site screening to determine the extent of contamination present by providing the concentration and defining the perimeter, while monitoring for potentially hazardous conditions during remediation.



2020ComboPRO with pre-filter tube assembly attached

# Specifications

## 2020ComboPRO includes:

- Specified UV lamp
- AC Charger (115V or 220 VAC)
- 6.7 in (17cm) Teflon sample probe with spring relief
- 10 membrane filters
- Adjustable wrist strap
- Multi-tool
- User reference card
- User manual (CD)

## 2020ComboPRO with field kit adds:

- Hard shell carrying case
- Spare 8 hour rechargeable battery
- Calibration gas regulator
- ProComm software
- Computer cable

## Optional Accessories

- 2020ComboPRO Benzene Pre-Filter Tube Holder
- Benzene Pre-Filters (pkg. 10)
- Calibration gas (isobutylene in 1ppm, 10 ppm or 100 ppm concentrations)

Specifications are subject to change without notice

## Detector

Photoionization 10.6 eV UV lamp standard, optional 11.7 eV or 10.0 eV UV lamps.

## Size

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

## Weight

1.9 pounds (0.86 kg).

## Display

Large 2 3/8" (6.03cm) x 1 3/4" (4.45cm), 8-line, 128 x 64 graphic LCD. Backlight manually activated.

## Keypad

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

## Datalogger Memory

**VOC mode:** 15,000 readings stored in instrument.

**Benzene mode:** 200 hours at 1 minute interval sampling.

## Response Time

**VOC mode:** Less than 3 seconds, to 90%.

**Benzene mode:** Less than 60 seconds to 100%.

## Serial Output

RS-232, 9600 Baud, 8 bits, no parity for connection to Windows-based PC.

## Languages

English is standard. One of the following can be added as an option: Spanish, German, French, Italian.

## Operating Concentration Range

**VOC Mode:** 0.1 ppm to 100 ppm and 100 ppm to 10,000 ppm (isobutylene equivalent).

**Benzene mode:** 10 ppm to 40 ppm (isobutylene equivalent).

## Operating Temperature Range

Operating temperature: 0°C to 50°C (32°F to 122°F) I/S Certified temperature: 0°C to 40°C (32°F to 104°F).

## Operating Humidity Range

0 to 95% relative humidity (non-condensing). With optional humidity pre-filter tube in VOC mode: 0 to 100%.

## Battery Capacity

8 hours.

## Audio Alarm

85 decibels.

## Intrinsic Safety

Class 1, Division 1, Groups A, B, C & D. ATEX II 2 G EEx ib IIC T4 (TA = 0°C to + 40°C).

## FCC

Class B digital device, pursuant to Subpart B, Class B of Part 15 of the FCC rules.

For further information on Photovac products, or to arrange a product demonstration, please contact a Photovac representative near you or email us at: [customerservice@photovac.com](mailto:customerservice@photovac.com) or contact Photovac, Inc. © 2008 Photovac, Inc. | 300 Second Avenue | Waltham, MA 02451 USA | Tel 781-290-0777 | Fax 781-290-4884

