

## ► X-PID 9500

### Gas chromatograph - VOC detector



### Technical specifications

#### ► Measurement unit

**Dimensions (w x h x d):** 132 x 281 x 56 mm

**Weight:** Approx. 880 g

**Integrated pump:** to connect hose up to 10 m

#### **Operating conditions:**

- Temperature: 10 °C to +35 °C
- Pressure: 700 to 1 300 mbar
- Relative humidity: 10 % to 95 % HR

**Protection:** IP54

**Stabilization phase:** Approx. 10 min (might be longer in low temperatures)

**Operating time:** Usually 8 h (less if the ambient temperature is lower)

#### **Certifications:**

- ATEX: II 1G Ex ia IIC T4 Ga
- IECEx: Ex ia IIC T4 Ga
- CE marking: RED (Directive 2014/53/UE)  
ATEX (2014/34/UE Directive)  
RoHS (2011/65/EU Directive)

#### ► Control unit

ATEX zone 2/22 smartphone

#### **Certifications :**

- ATEX : II 3G Ex ic IIC T4 Gc IP64
- IECEx : Ex ic IIC T4 Gc IP64
- Class I, Division 2, Groups A, B, C, D, T4

**Dimensions:** 137 x 72.1 x 20.8 mm

**Weight:** Env. 290 g

Lithium-Ion 4 800 mAh battery

4" touch screen (can be used with gloves) high visibility, even in bright sunlight

**Protection:** IP68 (submersible, resistant to microparticles)

### Product description

Based on the gas chromatography (GC) and on the photo-ionization detection (PID) technologies, the **X-PID 9500** is the first ever selective VOC gas detector (volatile organic compounds) that provides test results worthy of lab tests with very short response time.

#### ► Innovative operation

The **X-PID 9500** consists of three elements: a measurement unit with sample pump comprising a gas chromatograph associated with a photo-ionization PID detector, an explosion-proof control unit with touch screen, and a mobile application for intuitive manipulation and control.

#### ► High gas selectivity for finer analysis

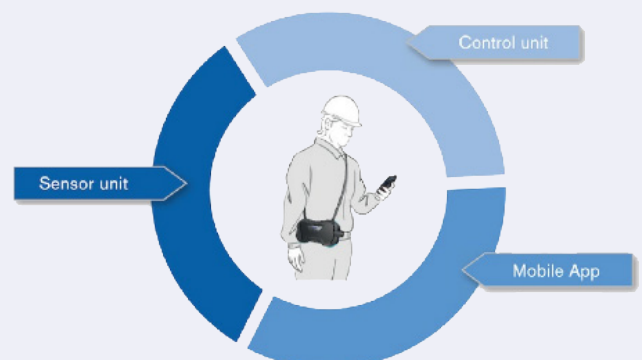
Most of PID detectors on the market only indicate the total VOC concentration without discriminating between the different gases. The **X-PID 9500** "Analytical" selective measurement mode is based on a technology separating the various compounds present in gas mixtures. This makes possible a specific benzene measurement for example, even if other VOCs are also present at high concentrations, which significantly reduces false positives and false alarms.

#### ► Reliable performances even in difficult conditions

Influence of environmental factors, such as variable ambient temperature or high humidity on measurement results is minimized. Maintaining constant higher than ambient air temperatures, the sensor also separates water vapor from the targeted compounds. This guarantees reliable measurements in difficult conditions.

#### ► Fast and easy operation

The **X-PID 9500** requires no special preparation, it is very quickly operational after a short preheating phase. The selective measurement in "Analysis" mode only takes a few seconds or minutes depending on the preselected gases. No prior knowledge or advanced training is required.



## List of target compounds

| Gas                        | Formula | CAS number |
|----------------------------|---------|------------|
| Acrolein                   | C3H4O   | 107-02-8   |
| Benzene                    | C6H6    | 71-43-2    |
| 1,3-Butadiene              | C4H6O2  | 106-99-0   |
| 2-Butanone                 | C4H9NO  | 78-93-3    |
| Butyl acrylate             | C7H12O2 | 141-32-2   |
| Chlorobenzene              | C6H5CL  | 108-90-7   |
| 1,1-Dichloroethene         | C2H2CL2 | 75-35-4    |
| cis-1,2-Dichloroethylene   | C2H2CL2 | 156-59-2   |
| trans-1,2 Dichloroethylene | C2H2CL2 | 156-60-5   |
| Epichlorhydrin             | C3H5OCL | 106-89-8   |
| Ethyl acetate              | C4H8O2  | 141-78-6   |
| Ethyl acrylate             | C5H8O2  | 140-88-5   |
| Ethyle benzene             | C8H10   | 100-41-4   |
| Ethylene oxide             | C2H4O   | 75-21-8    |
| n-Hexane                   | C6H14   | 110-54-3   |
| Isobutylene                | C4H8    | 115-11-7   |
| Methyl acrylate            | C4H6O2  | 96-33-3    |
| Methyle Bromide            | CH3BR   | 74-83-9    |
| Hydrogen phosphine         | PH3     | 7803-51-2  |
| Propylene oxide            | C3H6O   | 75-56-9    |
| Styrene                    | C8H8    | 100-42-5   |
| Tetrachloroethylene        | C2CL4   | 127-18-4   |
| Tetrahydrofurane           | C4H8O   | 109-99-9   |
| Toluene                    | C7H8    | 108-88-3   |
| Trichlorethylene           | C2CL3H  | 79-01-6    |
| Vinyl chloride             | C2H3CL  | 75-01-4    |
| m-Xylene                   | C8H10   | 108-38-3   |
| o-Xylene                   | C8H10   | 95-47-6    |
| p-Xylene                   | C8H10   | 106-42-3   |

### Measurement unit

compiles measurement values and sends them via Bluetooth to the control unit.

### Integrated gas chromatograph (GC)

to separate compounds in gas / vapor mixtures.

### Integrated pump

allows hose connection (up to 10 m long).



**Photo-ionization detector**  
for a measurement in the ppb field.

### Control unit

with large touch screen, WiFi and 4G / LITE connection.

### Mobile App

for intuitive handling and control.

