



# UNIPHOS

## Uniphos Gas Detection Quality, Reliability and Precision

*When measuring concentrations of specific compounds, nothing quite beats the colorimetric tube for simplicity, flexibility and specificity. Beyond that, Uniphos offers detector strips, smoke tubes, dissolved ion tubes, carbon tubes and dosimeter tubes.*

### Uniphos precision air sampling pump.

The Uniphos air sampling pump is a one stroke pump with built-in tip breaker and shard reservoir. This ensures safe and clean working and guarantees a reliable analysis.



### Features

- One-stroke hand pump
- Light, rugged and handy
- Reproducible stroke
- Low maintenance
- 50 or 100cc pump volume
- 5 year warranty

### Available for i.a.:

NH<sub>3</sub>, H<sub>2</sub>S, SO<sub>2</sub>, Cl<sub>2</sub>, PH<sub>3</sub>, HCL, HCN, CO, CO<sub>2</sub>, O<sub>2</sub>, C<sub>6</sub>H<sub>6</sub>, alcohols, amines, mercaptans and many other gases and vapors.

### Available also:

- Gas detection strips
- Carbon tubes
- Dissolved ion detector tubes
- Smoke tubes

The pump has only 5 moving parts to ensure accuracy and low maintenance cost. Leaks are virtually impossible, so the sampling volume is taken with great precision. Any leaks are quickly determined with the built-in leak test. You get a 5 year warranty with the pump.

Uniphos offers tubes for most compounds, often in multiple measurement ranges. These tubes also offer great value for money as the price is unrivalled by our competitors.

Most tubes have a shelf life of up to 2 years. Measurements are often possible at temperatures as low as 0° C.

### Exchanging tubes and sampling pump.

Results of research by independent institutes suggest that exchanging tubes and pumps cause no significant accuracy problems within the industrial standards. Uniphos tubes and pumps are compatible with RAE Systems LP-1200 / Gastec™ GV-100, and Sensidyne/Kitagawa™ AP-40(s) pumps. The tubes of these manufacturers, are compatible with the Uniphos sampling pump as well.

# Uniphos

## Andere Gas Detection Lösungen



### Uniphos Smoke Tubes.

Smoke tubes are sealed glass tubes filled with a pungent gas producing chemical compound loaded on an inert support material. After cutting both the ends of the tube and passing air by using a specified pump or squeezing a rubber bulb attached to one end of the tube. Uniphos Smoke Generation Tubes are used for tracking low velocity air movements. They are an ideal tool for respiratory fit testing specified by OSHA, for checking air flow direction in mines, testing the performance of fume hoods, exhaust discharge, dryers, stacks etc.

### Uniphos Dissolved Ion Detector Tubes.

Uniphos Dissolved Ion Detector Tubes provide a rapid, fully quantitative analysis of the concentration of sulfide and chloride ions in water. Using a pump is not necessary as the inherent capillary action of water through the support material allows the sample to be led over the reactive.



Gas	Range (ppm)
Sulfide ion	0.5 - 20
	2 - 300
	1 - 100
Chloride ion	5 - 200
	10 - 2000

### Uniphos Dosimeter tubes.

Gas	Messbereich (ppm)
Phosphine	(1 - 200) x 10 <sup>3</sup>
	(1 - 200) x 10 <sup>2</sup>
Ammonia	25 - 500
Chloride ion	5 - 200
Carbon Dioxide	(5 - 120) x 10 <sup>3</sup>
Oxygen	(1 - 100) x 150

### Uniphos Gas Detector Strips.

For a simple and cost effective detection of gases at their TLV, Uniphos developed these gas detector strips. It's just a little paper strip, impregnated with sensing chemicals to detect gases like phosphine, hydrogen cyanide, hydrogen sulfide etc.



Gas	Messbereich (ppm)
Phosphine	0.3 - 10
Hydrogen sulfide	1 - 20
Hydrogen cyanide	1 - 20
Mercaptan	0.5 - 10
Arsine	0.05 - 3

### Uniphos Charcoal Tubes.

These sealed glass tubes are filled with two columns of accurately weighed, high purity coconut shell charcoal. Non polar solvent vapors and gases running through the tube are adsorbed. The tubes fit into a variety of holders and can be used along with a number of specified air sampling pumps and flow meters. Thus, charcoal tubes are an industry standard of measuring exposure to organic vapors and aerosols. Using Uniphos charcoal tubes provide for a NIOSH approved method for air sampling.



Type	Size (mm) (Outer diameter x length)	Sorbent weight A/B (mg)
Standard	6 x 70	50/100
Large	8 x 110	200/400
Jumbo	10 x 110	200/800
Open end - standard	6 x 70	50/100
Open end - Large	8 x 110	200/400
Open end - Jumbo	10 x 110	200/800