



## UNIPHOS UNIPHOS ENVIROTRACK

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Uniphos Envirotrack is a microprocessor based portable instrument that measures the Ambient Air pollutants. The hazardous pollutants namely  $\text{SO}_2$ ,  $\text{NO}_2$ ,  $\text{O}_3$ ,  $\text{NH}_3$ ,  $\text{Cl}_2$  are measured in ppb levels by an impinger based sampling and followed by calorimetric absorption method.

In the analysis, the sample (Ambient) air containing the pollutants are scrubbed in a solution specific to the pollutant through a Peltier cooled air sampler (accessory) into Impingers. The pollutant gas dissolves in the gas specific chemical, and further it is processed to produce a colored dye. The absorbance of this colored dye is then measured and target gas concentration is inferred in ppb.



#### SALIENT FEATURES:

- Portable with rechargeable Battery
- Standard Impinger technique for sample preparation
- A compact Peltier cooled Air Sampler for efficient scrubbing of Air pollutants.
- Drastic reduction in reagents and sample in comparison to conventional lab method
- Quick Analysis of sample in <5 minutes

#### SENSOR SPECIFICATIONS:

Light Detector	Silicon Photodiode
Detector Life	50,000 hours
Operating Temperature	0 to 50°C (32 to 122 °F)



## Instrument Specifications:

Measuring Principle	Absorption Method	
<b>Measurement Range</b>	<b>Target Gas</b>	<b>Range (ppb)</b>
	Sulphur dioxide (SO <sub>2</sub> )	10 - 1050
	Nitrogen dioxide (NO <sub>2</sub> )	10 - 700
	Ammonia (NH <sub>3</sub> )	25 - 1000
	Ozone (O <sub>3</sub> )	10 - 1000
	Chlorine (Cl <sub>2</sub> )	10 - 1500
<b>Resolution</b>	1 ppb for all the gases	
<b>Accuracy</b>	± 10 % of reading for all the gases	
<b>Calibration Interval</b>	6 months	
<b>Physical Dimensions</b>	Length	21.5 cm
	Width	16.5 cm
	Height	9.5 cm
	Weight	0.87 Kg
<b>Power Requirements</b>	Battery Operated -7.6 V	
<b>Accessories</b>	Cuvettes (1pair), Charger, USB Cable, Air Sampler	

\*Due to continuous development we reserve the right to change the specifications without prior notice

## Uniphos Air Sampler

### SALIENT FEATURES:

- Battery operated device
- 3 Peltier cooled Impingers for simultaneous sampling of three gases.
- 3 sampling pumps (0 to 0.8 LPM) and a rotameter for measuring of flow.
- 3 needle valves for independent control of flow for each Impinger tube.
- A microprocessor based electronic timer (0 to 24 Hrs).



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Safety & Environmental Monitoring Solutions



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