

# Uniphos Detector Tube Instruction Sheet

Direct Reading Length of Stain Type

## Water Vapour-HP

H<sub>2</sub>O

## AWA-4L

TLV(TWA): NA

TLV(STEL): NA

Non Flammable

### MOST IMPORTANT:

Before using this product, carefully read this instruction sheet and strictly follow the recommended instructions.

### SPECIFICATION:

Measurement Range	10 - 80 mg/m <sup>3</sup>
Sampling Volume	500 mL
Flow Rate	100 mL/Min
Sampling Time	5 minutes
Color Change	Yellow → Green (Pale green at lower concentrations & bluish green at higher concentration)
Storage condition	Below 10°C (50°F)
Active Reagent(s)	Magnesium perchlorate, pH indicator.

### MEASUREMENT PROCEDURE:

1. Attach a pressure reducer (regulator with gauge) and manifold to high pressure cylinder or compressor or airline.
2. Carefully flush the system with the air to be tested. (Residual moisture present in the sampling system must be completely removed. The required duration of the flushing process should be determined by preliminary test).
3. The detector tube shall be connected to manifold outlet which reads H<sub>2</sub>O, 0.1 LPM flow rate.
4. Break both end of the detector tube using tip breaker as described below.
5. Observe the direction of arrow on the detector tube which shows the flow direction of test air. First break off the detector tube tip at arrow pointing side (i.e., air exists side). Insert the open end of detector tube into the tube holder which is already connected to the manifold. Then break off the other end of the detector tube tip (i.e. air entry side) directly in the flow of the air to be tested and immediately insert this end tightly into the detector tube holder ( i.e near to manifold).
6. Start the stopwatch immediately and allow the air to be tested to flow through the detector tube for a period of 5 minutes (For 500 mL sample).
7. Remove the tube from tube holder and take the reading immediately, read the concentration at end of colour zone (indication may alter by penetration of ambient humidity into detector tube).

### NOTE:

- Tubes once used should not be used again for the measurement.

### CORRECTION FOR TEMPERATURE :

Temperature - Not necessary between 0 - 40°C (32 - 104°F).

### OVERALL UNCERTAINTY:

Up to ± 15 – 20 % (Expressed as relative standard deviation).

### TRANSPORTATION:

Temperature should not exceed more than 25 °C (77°F) during transportation and protected from light.

### CAUTION:

Use eye and hand protection while breaking the tips of detector tube. During this process, the flying glass bits can be generated from the tube with sharp edges.

### IMPORTANT:

As we are continuously working on the improvement of products, we reserve the right to change the specifications without any prior notice.

### SAFETY ADVICE / DISPOSAL:

For tubes contents the following indications of danger apply: H302+H312+H332, H315, H335, P-102, P260, P262, P351 and P280b.

Dispose of used tubes according to local regulations, apply: P501a .

Keep tubes out of reach of unauthorized persons, especially children.

### USER RESPONSIBILITY:

It is entirely the responsibility of the user of the equipment to see that the equipment is operated, maintained and repaired in strict accordance with the manufacturer's instructions provided with the equipment. It is also the sole responsibility of the user to ensure that the tubes are not used beyond their expiration date. The manufacturer and manufacturer's distributors are not other wise liable for any incorrect measurement and its consequences or any damages resulting from user's negligence or otherwise.

Manufactured By : Uniphos Envirotronic Pvt. Ltd.(100% EOU)



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