

Uniphos Detector Tube Instruction Sheet

Direct Reading Length of Stain Type

Carbon Dioxide-HP

CO₂

ACD-5

TLV(TWA): 5000 ppm

TLV(STEL): 30,000 PPM

Non Flammable

MOST IMPORTANT:

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

SPECIFICATION:

Measurement Range	200 - 3000 ppm
Sampling Volume	150 mL
Flow Rate	100 mL/Min
Sampling Time	1.5 minutes
Color Change	Off White → Light blue
Storage condition	Below 10°C (50°F)
Active Reagent(s)	Hydrazine Hydrate, 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.
3. The detector tube shall be connected to manifold outlet which reads CO₂, 0.1 LPM flow rate.
4. Break both ends of the tube using tip breaker.
5. Insert the tube tightly into the tube holder which is already connected to the manifold- arrow on the tube must point away from the manifold.
6. Start the stopwatch immediately and allow the air to be tested flow through the detector tube for a period of 1.5 minutes (For 150 mL sample).
7. After sampling, remove the tube from tube holder and take the reading immediately, read the concentration at end of colour zone .

NOTE:

- Tubes once used should not be used again for the measurement.
- If the sampling volume is different from the recommended sampling volume (i.e.150 ml), then the following formula can be used. Please note that, this formula is to be used as a guidance to get approximate concentration.

$$\text{Concentration (ppm)} = \frac{\text{Tube Reading} \times 150 \text{ (mL)}}{\text{Sampled Volume (mL)}}$$

CORRECTION FOR TEMPERATURE AND HUMIDITY:

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

Relative humidity - Not necessary between 10 - 90 % RH.

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, P102+P351+P262 P260 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)

CF001182

#14220



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Rev.0223