

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Sulphur Dioxide SO<sub>2</sub>

TWA (TLV): 2 ppm

STEL (TLV): 5 ppm

## SSD-5

Flammable Range: NA

### Specification:

|                                 | Extended   | Standard     | Extended      |
|---------------------------------|--|--------------|---------------|
| Measurement Range               | Do not extend  | 0.02 – 0.3 % | Do not extend |
| No. of Pump Strokes             |  | 1 (100 mL)   |               |
| Volume Correction Factor (VCF)* |  | 1.0          |               |
| Sampling Time                   | 1 minute per pump stroke (100 mL)  |              |               |
| Color Change                    | Yellow → Pale blue   |              |               |
| Shelf Life                      | 2 years  |              |               |
| Storage condition               | Below 10°C (50°F)  |              |               |
| Calibration condition           | Calibrated at 20°C (68°F) and 50% RH.  |              |               |
| Reaction Principle              | SO <sub>2</sub> + Cr <sup>6+</sup> + H <sub>2</sub> SO <sub>4</sub> → Cr <sup>3+</sup> |              |               |
| Relative standard deviation     | ± 10 %   |              |               |

\* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

### Possible Interferences:

| Compound         | Concentration (ppm) | Interference | Colour change / Comments |
|------------------|---------------------|--------------|--------------------------|
| H <sub>2</sub> S |                     | +            | Slight ring              |
| CO               |                     | +            | Slight colour change     |
| CO <sub>2</sub>  | 0.3%                | No           | No Effect                |

### Correction for Environmental Parameters:

|                   |  |
|-------------------|--|
| Temperature       | Not necessary between 0 - 40°C (32 - 104°F). |
| Relative humidity | Not necessary between 10 - 90 %.             |



**Manufactured By:** Uniphos Envirotronic Pvt. Ltd.  
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