

# Information Data Sheet

**Detector Tube SO2-100**

**Part No. (US): 497661**

**Part No. D5085825**

## 1. Application

Detection of sulfur dioxide (SO<sub>2</sub>) in air or in technical gases.

## 2. Detector Tube Sampling Pump

KWIK DRAW(formerly MSA AUER) Gas-Tester<sup>®</sup> I/H, Gas-Tester<sup>®</sup> I / ThumbPump<sup>™</sup>-Sampler, Toximeter<sup>®</sup> II, Uniphos Kwik-Draw<sup>™</sup>-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

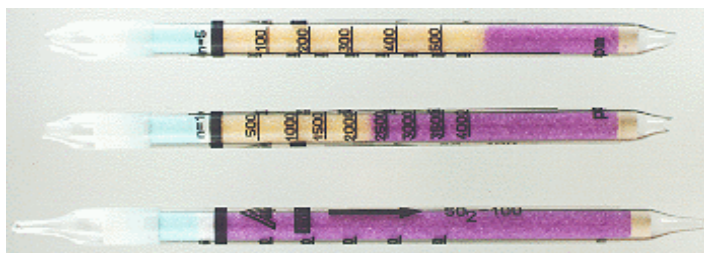
## 3. Measuring Range

500 ppm ... 4000 ppm sulfur dioxide at n=1 (1 stroke).  
100 ppm ... 500 ppm sulfur dioxide at n=5 (5 strokes).

## 4. Chemical Reaction and Color Change

Change of pH-Value causes color change of an acid-base-indicator.

Color change: Violet → Yellow.



## 5. Ambient Conditions During Sampling

Detector tubes can be used between 0° C and 40° C [32°F and 104°F] and between 10 % RH(0,5 g/m<sup>3</sup> at 0°C [32°F]) and 90 % RH (46g/m<sup>3</sup> at 40° C [104°F]).

## 6. Interferences and Cross Sensitivities

a) No interference from:

- hydrogen, methane, ethane, propane, butanes, carbon monoxide, carbon dioxide, nitric oxide.
- higher saturated hydrocarbons (e.g. hexanes, octanes), olefinic hydrocarbons (e.g. ethylene) aromatic hydrocarbons (e.g. benzene) up to 5000 ppm.
- hydrogen sulfide up to 1000 ppm (n=1) or 200 ppm (n=5). Hydrogen sulfide will be retained by the protective layer changing its color (light blue to brown). Do not use the detector tube if protective layer has totally change its color.
- Nitrogen dioxide up to 1000 ppm (n = 1) or 200 ppm (n = 5).
- Hydrogen chloride up to 100 ppm (n=1) or 200 ppm(n=5).

*Manufactured By:*

**Uniphos Envirotronic Pvt. Ltd (100% EOU)**

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