

Information Data Sheet

Detector Tube **SO₂-1**
Part No. (US): **487338**
Part No. **D5085803**

1. Application

Detection of sulfur dioxide (SO₂) in air or in technical gases.

2. Detector Tube Sampling Pump

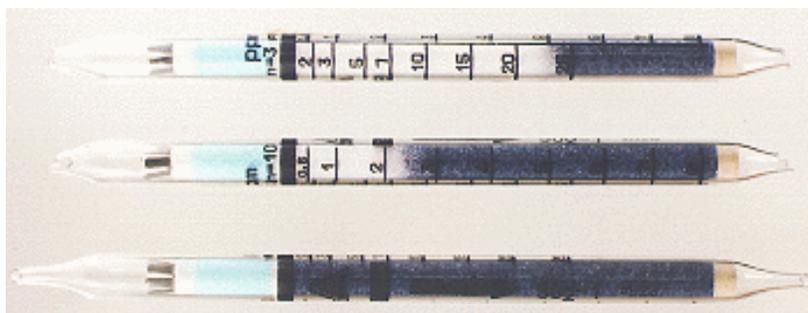
UNIPHOS KWIK DRAW (formerly MSA AUER) Gas-Tester[®] IIH, Gas-Tester[®] I / ThumbPump[™]-Sampler, Toximeter[®] II, Uniphos Kwik-Draw[™]-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

3. Measuring Range

1 ppm ... 25 ppm sulfur dioxide at n=3 (3 strokes).
0.5 ppm ... 8 ppm sulfur dioxide at n=10 (10 strokes).

4. Chemical Reaction and Color Change

Reaction of sulfur dioxide with iodine. Iodine will be reduced to iodide.
Color change: violet → white.



5. Ambient Conditions During Sampling

• Detector tubes can be used between 10°C and 30°C (50°F and 86°F) and between 10% rh (0.9 g/m³ at 10°C [50°F]) and 90% rh (27 g/m³ at 30°C [86°F]).

6. Interferences and Cross Sensitivities

- a) No interference from:
 - higher saturated hydrocarbons (e. g. hexanes, octanes), aromatic hydrocarbons (e. g. benzene) up to 1000 ppm.
 - hydrogen sulfide up to 100 ppm (n=3) or 40 ppm (n=10). Hydrogen sulfide will be retained by the protective layer changing its color (light blue → brown). Do not use the detector tube if protective layer has totally change its color.
 - hydrogen chloride up to 25 ppm (n=3) or 10 ppm (n=10).
- b) Chlorine, ammonia, nitrogen dioxide, olefinic hydrocarbons (e. g. ethylene) are not indicated but possibly will shorten indication stain of sulfur dioxide even when concentrations correspond to the measuring range of detector tube.

Manufactured By:
Uniphos Envirotronic Pvt. Ltd
P.O. Nahuli - 396 108
Tal. Umbergaon,
Dist: Valsad, Gujarat, India
Tel. : +91(260) 2730156 / 57 / 58
Fax : +91(260) 2730160
gasdetection@uniphos.com

Marketing Office:
Uniphos Envirotronic Pvt. Ltd
Readymoney Terrace, 167,
Dr. Annie Besant Road, Worli,
Mumbai 400 018, India.
Tel. : +91(22) 6123 3500
Fax : +91(22) 2493 8826/+91 (22) 2497 8119
www.kwikdrawtubes.com