Information Data Sheet

Detector Tube Hg-0.01

Part No. (US): 497663

Part No. D5085843



1. Application

Detection of mercury (Hg) vapor in air or in technical gases.

2. Detector Tube Sampling Pump

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

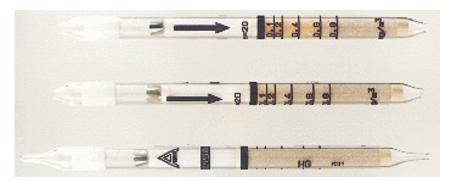
0.012 ppm ... 0.096 ppm mercury at n=20 (20 strokes); equivalent to:

 $0.1 \text{ mg/m}^3 \dots 0.8 \text{ mg/m}^3 \text{ mercury at n=20 (20 strokes)}.$

Any number of strokes from 5 to 20 can be chosen. For calculation use n=20 scale, relate at follows:

4. Chemical Reaction and Color Change

Reaction of mercury with copper iodide forming a complex copper-mercury iodide compound. Color change: Greyish white \rightarrow Light reddish yellow.



5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the reading between 10°C and 40°C (50°F and 104°F) and between 10% rh (0.9 g/m³ at 10°C [50°F]) and 80% rh (41 g/m³ at 40°C [104°F]). Do not use detector tube if protective layer has totally changed from dry to wet by water vapour.

6. Interferences and Cross Sensitivities

- a) No interference from:
 - hydrogen, methane, ethane, propane, carbon monoxide, carbon dioxide.
 - higher saturated hydrocarbons (e. g. hexanes, octanes), olefinic hydrocarbons (e. g. ethylene), aromatic hydrocarbons (e. g. benzene), alcohols, ketones, ethers, esters up to 1000 ppm.
 - hydrogen sulfide, ammonia up to 100 ppm
 - sulfur dioxide, hydrogen chloride, hydrogen cyanide up to 5 ppm.
- b) Chlorine, bromine, nitrogen dioxide will shorten stain length of mercury indication even in concentrations lower than 1 ppm.

Manufactured By:

Uniphos Envirotronic Pvt. Ltd (100% EOU)

P.O. Nahuli - 396 108 Tal. Umbergaon,

Dist: Valsad, Gujarat, India Tel.: +91(260) 2730156 / 57 / 58

Fax: +91(260) 2730160

gasdetection@uniphos-envirotronic.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

Rev.02/Jan17