

Information Data Sheet

Detector Tube **CO in Hydrogen**

Part No. (US): **D7086890**

Part No. **D7086890**

1. Application

Detection of Carbon monoxide in Hydrogen.

2. Detector Tube Sampling Pump

KWIK DRAW Pump, Gas-Tester IIH, Gas-Tester I / ThumbPump-Sampler, Toximeter III, or other suitable detector tubes pumps. Observe respective instructions for use.

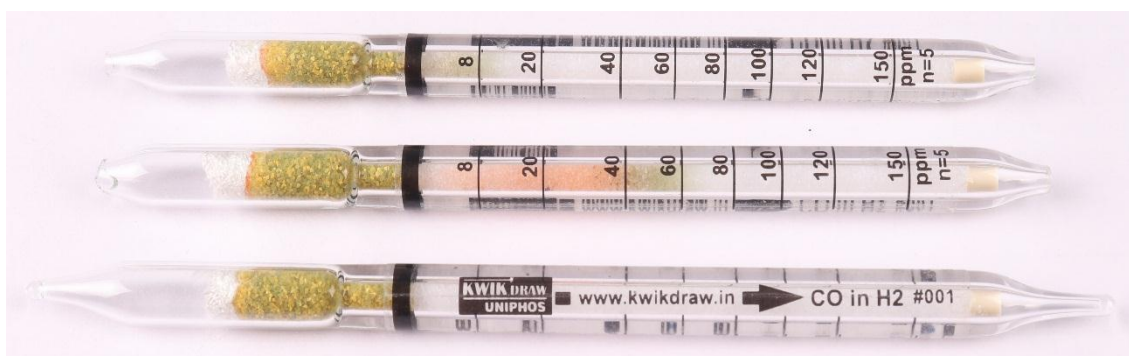
3. Measuring Range

8 to 150 ppm carbon monoxide in Hydrogen at n=5 (5 stroke).

4. Chemical Reaction and Color Change

Oxidation of carbon monoxide by iodine pentoxide in fuming sulfuric acid.

Color change: White → Brown/ green



5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the reading between -10 °C and 50 °C (10 °F and 120 °F) and up to 90% RH (75 g/m³ at 50 °C [120 °F]) water vapour will not affect accuracy of indication.

6. Interferences and Cross Sensitivities

a) No interference from:

- Methane, carbon dioxide, as well in concentrations above 50 vol. %.
- Ethane up to 1 vol. % ; higher concentrations discolor the whole indicating layer, a sharp stain edge is not formed.
- sulfur dioxide, nitrogen oxide, nitrogen dioxide up to 1,000 ppm.

b) Propane and higher saturated hydrocarbons, olefinic hydrocarbons, hydrogen sulfide discolor the protective layer from brown to greenish. At least 300 ppm of propane, olefinic hydrocarbons (e.g. ethylene) and hydrogen sulfide are retained. Retention is lower for butanes and higher saturated hydrocarbons (e.g. hexanes). Concentrations of hydrocarbons exceeding the protective capacity may be eliminated by adding a charcoal filter tube Ads (804403).

c) Water vapor reduces the protective layer retention capacity, in particular for hydrocarbons.

Manufactured By:

Uniphos Envirotronic Pvt. Ltd (100% EOU)

P.O. Nahuli - 396 108

Tal. Umbergaon,

Dist: Valsad, Gujarat, India

Tel. : +91 9909994042

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.01/APR19