

Information Data Sheet

Detector Tube H₂O-HP(mg/m³)

Part No. (US): 804438

Part No. D5085849

1. Application

Detection of water vapor (H₂O) in compressed air.

2. Sampling Device

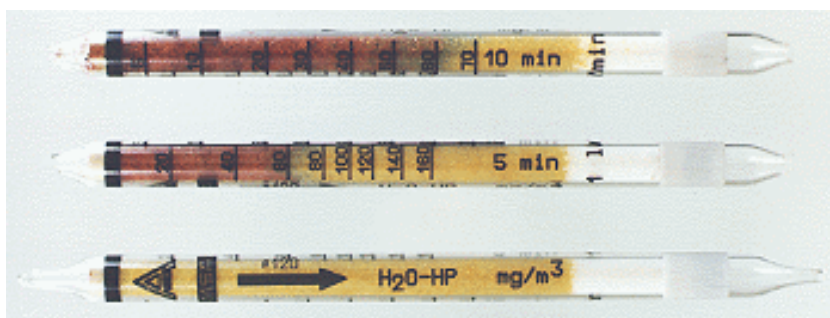
Monitoring set for compressed air, Uniphos Airtester HP, observe included instruction for use.

3. Measuring Range

20 mg/ m³ ... 160 mg/ m³ water vapor for a 5 l sample.
5 mg/ m³ ... 70 mg/ m³ water vapor for a 10 l sample.

4. Chemical Reaction and Color Change

Precipitation of selenium from selenium/sulfuric acid by water.
Color change: yellow → brown resp. brown/green.



5. Influence of Temperature

• Detector tubes can be used between 0 °C and 35 °C (32 °F and 95 °F).
The calibration scales on detector tube are exactly valid if tubes have a temperature of 20 °C (68 °F) during measurement. If detector tube temperature deviates from 20 °C (68 °F), multiply reading (mg/ m³) with appropriate correction factor (see table).

Temperature of detector tube (°C)	0	5	10	15	20	25	30	35
Temperature of detector tube (°F)	32	41	50	59	68	77	86	95
Correction factor	1,85	1,55	1,35	1,17	1,00	0,85	0,70	0,57

Normally, detector tube temperature is equivalent to ambient temperature.

6. Interferences and Cross Sensitivities

- a) No interference from:
– hydrogen, methane, ethane, propane, carbon monoxide, carbon dioxide, mineralic oil (vapor)

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and mist).

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