

# Information Data Sheet

**Detector Tube H<sub>2</sub>O-HP (ppm)**

**Part No. (US): 488908**

**Part No. D5085851**

## 1. Application

Detection of water vapor (H<sub>2</sub>O) in compressed air.

## 2. Detector Tube Sampling Pump

Monitoring set for compressed air, Uniphos(formerly MSA Auer) Airtester HP, observe included instruction for use.

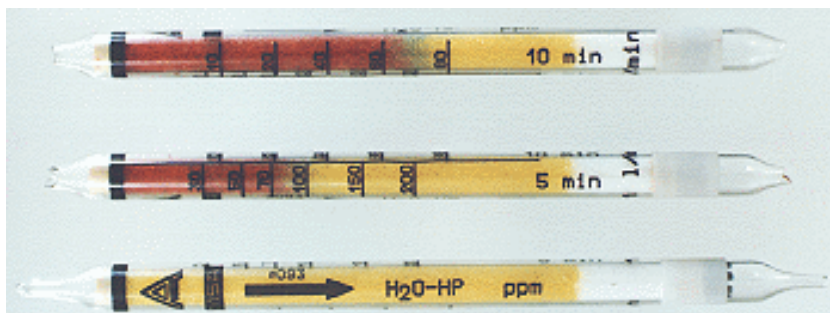
## 3. Measuring Range

30 ppm ... 200 ppm water vapor for a 5 l sample.  
10 ppm ... 80 ppm 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 (ppm) 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 and mist).

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