

Water Vapor 5/a-P

Order No. 67 28 531

Application Range

Standard Measuring Range:	5 to 200 mg/m ³
Test Volume:	50 L
Flow Rate:	2 L / min
Time for Measurement:	approx. 25 min
Standard Deviation:	± 15 to 20 %
Color Change:	yellow → reddish-brown

Ambient Operating Conditions

Temperature:	0 to 40 °C
Pressure:	The tube may only be used for depressurized compressed air

Reaction Principle

$$\text{H}_2\text{O} + \text{SeO}_2 + \text{H}_2\text{SO}_4 \rightarrow \text{reddish-brown reaction product}$$

Cross Sensitivity

Alcohols and unsaturated hydrocarbons of high concentrations may cause a diffused discoloration of the indicating layer.

Extension of the measuring range

The following evaluation applies for other volumes:

reading:	5	10	30	50	70	100	150	200 mg
H ₂ O/m ³								
25 L vol.:	10	20	70	110	160	220	340	450 mg
H ₂ O/m ³								
100 L vol.:	2	4	12	20	28	40	60	80 mg
H ₂ O/m ³								

i.e. given a test volume of 25 L the scale reading of 50 mg H₂O/m³ corresponds to a measured value of 110 mg H₂O/m³

Relative Standard Deviation:	± 25 to 30 % (25 L)
	± 20 to 25 % (100 L)



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