S

Water Vapor 5/a-P

Order No. 67 28 531

Application Range

Use in Aerotest 5000, SimultanTest CO ₂						
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 depressurize		
	compressed air		

Reaction Principle

 H_2O + SeO_2 + H_2SO_4 \rightarrow 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: 25 L vol.:	5	10	15000	225520	Allegan	111004-53	District Control	.0.52	$\begin{array}{c} \mathrm{mg}\mathrm{H_2O/m^3} \\ \mathrm{mg}\mathrm{H_2O/m^3} \end{array}$
	10 2	20							
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 $\rm H_2O/m^3$ corresponds to a measured value of 110 mg $\rm H_2O/m_3$

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

± 20 to 25 % (100 L)

