

Water Vapor 1/b

Order No. 81 01 781

W

Application Range

Standard Measuring Range:	20 to 40 mg/L / 1 to 18 mg/L
Number of Strokes n:	1 / 2
Time for Measurement:	approx. 20 s / approx. 40 s
Standard Deviation:	± 15 to 20 %
Color Change:	yellow → turquoise-blue

Ambient Operating Conditions

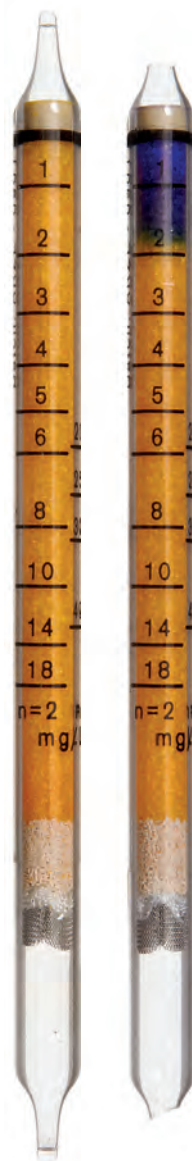
Temperature:	0 to 50 °C
Absolute Humidity:	up to 100% r.h.
Condensation in the tube causes measurement errors. If high r.h. (in excess of 80%) is to be expected, the temperature of the tube should be at least 5 °C higher than ambient temperature. Given a r.h. below 80%, the temperature of the tube should be at least equal to the ambient temperature.	

Reaction Principle

$\text{H}_2\text{O} + \text{Mg}(\text{ClO}_4)_2 \rightarrow \text{turquoise-blue reaction product}$

Cross Sensitivity

Acid gases are liable to cause plus errors. Basic gases are liable to cause minus errors.



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