

Water Vapor 1/b

Order No. 81 01 781

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.

