# 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: vellow → turquoise-blue

## **Ambient Operating Conditions**

Temperature: 0 to 50  $^{\circ}$ 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

 $H_2O + Mg(CIO_4)_2 \rightarrow turquoise$ -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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