Order No.

81 01681

Hydrochloric Acid/Nitric Acid 1/a

Hydrochloric Acid

Standard Measuring Range : 1 to 10 ppm

Number of Strokes (n) : 10

Nitric Acid

Standard Measuring Range: 1 to 15 ppm Number of Strokes (n) : 20

Time for Measurement : app. 1.5 min or 3 min

Standard Deviation : ±30 % Colour Change : blue --> yellow

Ambient Operating Conditions

Temperature : 5 to 40 °C for HCl

For HNO measurements, the tube scales are applicable only to 20°C. Where the temperature is different, the measuring result must be multiplied as follows: Temperature °C Factor

> 40 0.3 30 0.4 10

For values which are corrected by means of multication factor ± 50%

: 3 to 20 mg H_oO / L Absolute Humidity

Reaction Principle

HCl and/or HNO₃ + pH indicator --> yellow reaction product

Cross Sensitivity

50 ppm nitrogen dioxide result in almost the same reading as 2 ppm nitric acid.

10 ppm hydrogen sulphide or 5 ppm nitrogen dioxide do not effect the reading.

Chlorine concentrations in excess of 1 ppm change the entire indicating layer to a yellow-green.

Additional Information

Extension of measuring range for hydrochloric acid: depending on the stroke number, multiply the scale value by the following factor.

Measuring range (ppm)	Strokes	Factor
10 to 50	2	5
0.5 to 1	20	0.5

