

Ammonia 0.25/a

Order No. 81 01 711

A

Application Range

Standard Measuring Range:	0.25 to 3 ppm
Number of Strokes n:	10
Time for Measurement:	approx. 1 min
Standard Deviation:	± 10 to 15 %
Color Change:	yellow → blue

Ambient Operating Conditions

Temperature:	10 to 50 °C
Absolute Humidity:	< 20 mg H ₂ O / L

Reaction Principle

NH₃+ pH indicator → blue reaction product

Cross Sensitivity

Other basic substances such as e.g. organic amines are indicated as well, but with different sensitivity.



D-13923-2010

Place You Put Your Faith

Ammonia 2/a

Order No. 67 33 231

Application Range

Standard Measuring Range:	2 to 30 ppm
Number of Strokes n:	5
Time for Measurement:	approx. 1 min
Standard Deviation:	± 10 to 15 %
Color Change:	yellow → blue

Ambient Operating Conditions

Temperature:	10 to 50 °C
Absolute Humidity:	< 20 mg H ₂ O / L

Reaction Principle

$\text{NH}_3 + \text{pH indicator} \rightarrow \text{blue reaction product}$

Cross Sensitivity

Other basic substances such as e.g. organic amines are indicated as well.

The indication is not affected by:

- 300 ppm nitrous fumes
- 2,000 ppm sulfur dioxide
- 2,000 ppm hydrogen sulfide



D-13316-2010

Place You Put Your Faith

Ammonia 5/a

Order No. CH 20 501

A

Application Range

Standard Measuring Range:	5 to 70 ppm	/	50 to 600 ppm
Number of Strokes n:	10	/	1
Time for Measurement:	approx. 60 s	/	10 s
Standard Deviation:	± 10 to 15 %		
Color Change:	yellow → blue		

Ambient Operating Conditions

Temperature:	10 to 50 °C
Absolute Humidity:	< 20 mg H ₂ O / L

Reaction Principle

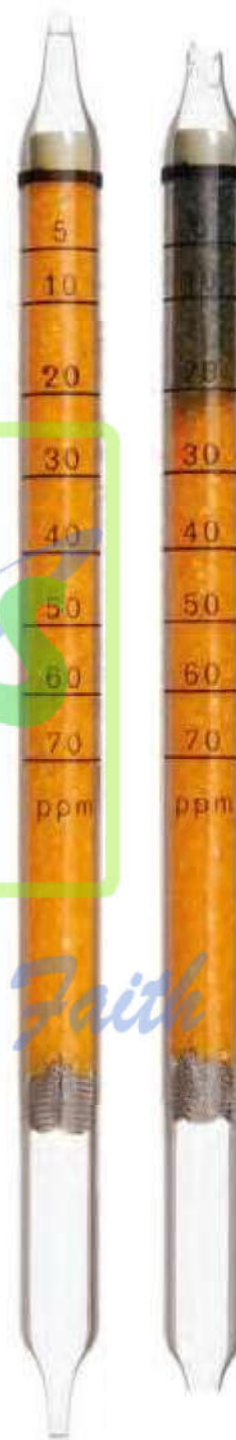
$\text{NH}_3 + \text{pH indicator} \rightarrow \text{blue reaction product}$

Cross Sensitivity

Other basic substances such as e.g. organic amines are indicated as well.

The indication is not affected by:

- 300 ppm nitrous fumes
- 2,000 ppm sulfur dioxide
- 2,000 ppm hydrogen sulfide



D-13344-2010

Place You Put Your Faith

Ammonia 5/b

Order No. 81 01 941

Application Range

Standard Measuring Range:	5 to 100 ppm
Number of Strokes n:	1
Time for Measurement:	approx. 10 s
Standard Deviation:	± 10 to 15 %
Color Change:	yellow → blue

Ambient Operating Conditions

Temperature:	10 to 50 °C
Absolute Humidity:	< 20 mg H ₂ O / L

Reaction Principle

NH₃ + pH-indicator → blue reaction product

Cross Sensitivity

Other basic substances such as e.g. organic amines are indicated as well.

The indication is not affected by:

- 300 ppm nitrous fumes
- 2,000 ppm sulfur dioxide
- 2,000 ppm hydrogen sulfide

Extension of the Measuring Range

Using n = 2 strokes, divide the reading by 2; the measuring range will be 2.5 to 50 ppm.



D-13329-2010

Ammonia 0.5%/a

Order No. CH 31 901

A

Application Range

Standard Measuring Range:	0.5 to 10 vol. %
Number of Strokes n:	1 + 1 desorption stroke in clean air
Time for Measurement:	20 s per stroke
Standard Deviation:	± 10 to 15 %
Color Change:	yellow → violet

Ambient Operating Conditions

Temperature:	10 to 30 °C
Absolute Humidity:	3 to 12 mg H ₂ O / L

Reaction Principle

NH₃ + pH indicator → purple reaction product

Cross Sensitivity

Other basic substances such as e.g. organic amines are indicated as well.

Extension of the Measuring Range

Using n = 10 + 1 desorptionstroke in clean air divide the reading by 10; the measuring range will be 0.05 to 1 % by vol.



D-13351-2010

Place You Put Your Faith