

Ammonia NH₃

No. H-10-100-40



	Extended Range	Standard Range	Extended Range
Range (ppmv)	0.5 - 7.5%	1 - 15%	2 - 30%
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 2	2	1.5
Correction Factor	0.5	1	2

Precision (Relative Standard Deviation)*: ≤ ± 10%

Linearity with No. of Pump Strokes: r² = 0.999

Humidity: 85% RH reduces the reading by about 25% compared to dry air

Temperature Range: No effect 0 - 40°C (32 - 104°F).

Storage Life: 2 years in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

Color Change: Orange → Deep Purple

Reaction Principle: 3NH₃ + H₃PO₄ → (NH₄)₃PO₄

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
CO	3000	0
CO ₂	100000	0
SO ₂	200	0
NO	100	0
Hexane	100	0
Isobutylene	1000	0
CH ₄	25000	0

* Data based on Honeywell pumps and tubes used in standard range.

Other Possible Interferences: Amines and other bases