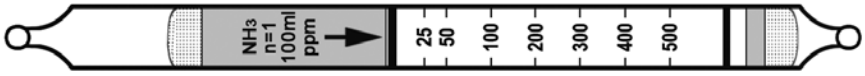
Ammonia NH_3 No. H-10-100-15



	Extended Range	Standard Range	Extended Range
Range (ppmv)	12 - 250	25 - 500	50 - 1000
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 1	1	1
Correction Factor	0.56	1	2

Precision (Relative Standard Deviation)*: ≤ ± 12%

Linearity with No. of Pump Strokes: $r^2 = 0.998$

Humidity: No effect at 10 - 90% RH. At <5% RH multiply the reading by 0.8.

Temperature Range: 0 - 40°C (32 - 104°F) @ constant 50%RH.

Temp (°C/°F)	0/32	10/50	24/75	40/104
Corr. Factor	1.3	1.0	1.0	1.2

Storage Life: 2 years in darkness at 3 - 10°C (37 - 50°F). Refrigeration required.

Color Change: Purple → Beige

Reaction Principle: Prelayer reduces humidity effects

$$3NH_3 + H_3PO_4 \rightarrow (NH_4)_3PO_4$$

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
Butylamine	300#	200
Diethylamine	100#	90
CO	250	0
CO_2	50000	0
H_2S	250	0
SO_2	500#	0‡
NO2	200	0
CH_4	25000	0
Hexane	1500	0
Toluene	200	0
Isobutylene	5000	0

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

#At 50% RH. ‡Reduces reading in mixtures

Other Possible Interferences: Amines and other bases.