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Gas Detection Tube Data Sheet

Ammonia NH₃

No. 10-100-12

	Extended Range	Standard Range	Extended Range
Range (ppmv)	5 - 130	10-260	20 - 520
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 1.5	1.5	1
Correction Factor	0.5	1	2

Precision (Relative Standard Deviation)*: $\leq \pm 12\%$

Linearity with No. of Pump Strokes: $r^2 = 1.000$

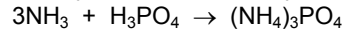
Humidity: @ 22 °C (72 °F)	% RH	< 5%	10%	50%	70%	90%
	Corr. Factor	0.8	0.9	1.0	1.0	1.0

Temperature Range: 0 - 40°C @ 50%RH (32 - 104°F)	Temp (°C/°F)	0/32	10/50	22/72	40/104
	Corr. Factor	0.8	1.0	1.0	1.0

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



Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
Butylamine	200 [#]	200
Diethylamine	200 [#]	260
CO	250	0
H ₂ S	100 [#]	0
SO ₂	100 [#]	0
CH ₄	50000	0
CO ₂	50000	0
NO ₂	200	0
Hexane	100	0
Isobutylene	100	0
Toluene	100	0

*Data based on RAE pumps and tubes used in standard range. [#] At 50% RH.

Other Possible Interferences: Amines and other bases.

Caution: Dispose of spent or expired tubes according to local regulations. Possibly hazardous materials are given under the section Reaction Principle.