



RAE Systems, Inc.  
1339 Moffett Park Dr.  
Sunnyvale, CA 94089 USA

Telephone 408-752-0723  
Tube Orders 1-888-723-8823  
Web www.raesystems.com

# Gas Detection Tube Data Sheet

## Ammonia NH<sub>3</sub>

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:  $r^2 = 1.000$

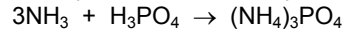
Humidity: @ 22 °C (72 °F)	% RH	< 5%	10%	50%	70%	90%
	Corr. Factor	0.8	0.9	1.0	1.0	1.0

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 <sup>#</sup>	200
Diethylamine	200 <sup>#</sup>	260
CO	250	0
H <sub>2</sub> S	100 <sup>#</sup>	0
SO <sub>2</sub>	100 <sup>#</sup>	0
CH <sub>4</sub>	50000	0
CO <sub>2</sub>	50000	0
NO <sub>2</sub>	200	0
Hexane	100	0
Isobutylene	100	0
Toluene	100	0

\*Data based on RAE pumps and tubes used in standard range. <sup>#</sup> 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.