



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 NH₃ No. 10-100-10

	Extended Range	Standard Range	Extended Range
Range (ppmv)	2.5 - 50	5 - 100	10 - 200
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 1	1	1
Correction Factor	0.5	1	2

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

Linearity with No. of Pump Strokes: r² = 1.000

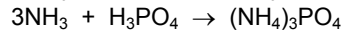
<u>Humidity:</u> @ 24 °C (75 °F)	% RH	< 5%	20%	50%	70%	90%
	Corr. Factor	0.7	0.8	1.0	1.1	1.3

<u>Temperature Range:</u> 0 - 35°C @ 50%RH (32 - 95°F)	Temp (°C/°F)	0/32	10/50	24/75	34/93
	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	100 [#]	45
Diethylamine	50 [#]	60
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.