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Gas Detection Tube Data Sheet

Water Vapor H₂O

No. 10-120-40

	Extended Range	Standard Range	Extended Range
Range (mg/L)	0.5 - 4	1 - 18	2 - 32
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	0.4	1	See Fig. 2

Precision (Relative Standard Deviation)*: ≤ ±20%

Linearity with No. of Pump Strokes: r² > 0.95

Temperature Range: Refer to Figures 1 and 2. Requires accurate temperature measurement.

Storage Life: 1 year in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

Color Change: Yellow green → Purple

Reaction Principle: H₂O + Mg(ClO₄)₂ → Mg(ClO₄)₂•H₂O

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
CH ₄	25000	0
CO ₂	200000	0
CO	500	0
H ₂ S	1000	0
SO ₂	3500	0
HCl	2000	0
NO ₂	460	0
NH ₃	460	1
PH ₃	40	0
Acetone	1000	1 (green)
Ethanol	2000	1.5

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

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



Fig. 1. Temp. Correction, 1 Pump Stroke

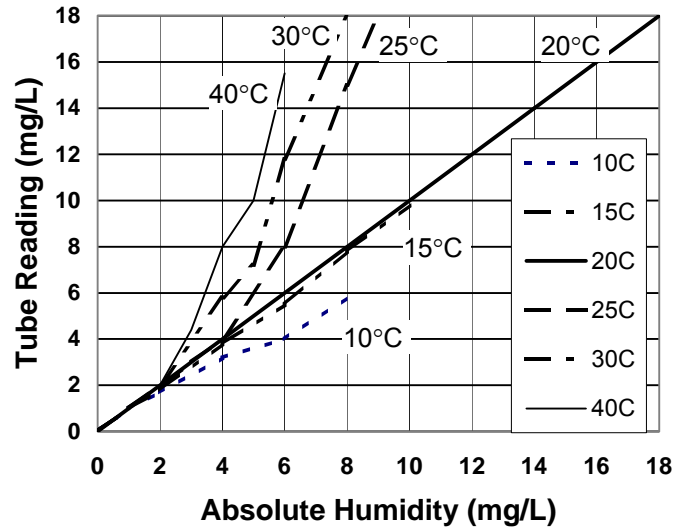
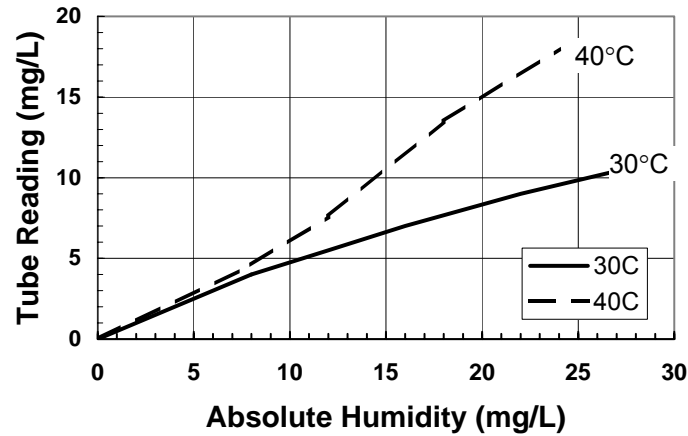


Fig. 2. Temp. Correction, 1/2 Stroke



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