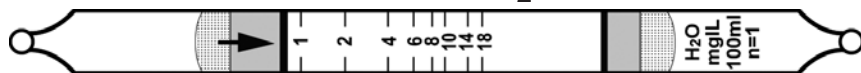


Water Vapor (Metric) H₂O No. H-10-120-40



	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)*: $\leq \pm 20\%$

Linearity with No. of Pump Strokes: $r^2 = 0.959$

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: $\text{H}_2\text{O} + \text{Mg}(\text{ClO}_4)_2 \rightarrow \text{Mg}(\text{ClO}_4)_2 \cdot \text{H}_2\text{O}$

Cross-sensitivity: Substance	Concentration (ppmv)	Reading* (mg/L)
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 Honeywell pumps and tubes used in standard range.

DATA SHEETS

Continued on next page

Water Vapor H₂O (Continued) No. H-10-120-40

Fig. 1. Temp. Correction, 1 Pump Stroke

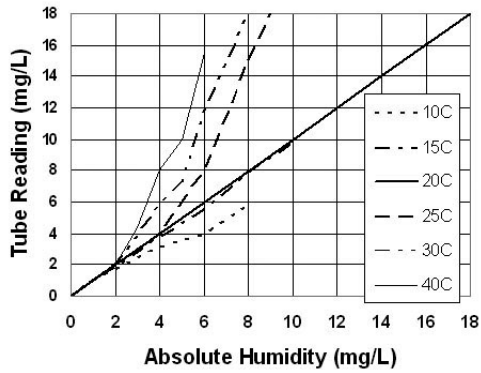


Fig. 2. Temp. Correction, 1/2 Stroke

