

Water Vapor (Pipeline) H2O

No. N10-120-20



	Extended Range	Standard Range	Extended Range
Range (lbs/MMCF)	3 - 20	6 - 40	12 - 80
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	0.45	1	2.3

<u>Precision (Relative Standard Deviation)*</u>: $\leq \pm 12\%$ <u>Linearity with No. of Pump Strokes:</u> r2 = 0.994 <u>Temperature Range:</u> 0 - 40° C (32 - 104° F)

Temp (°C/°F) 0/32 10/50 25/77 40/104 Corr. Factor 1.3 1.1 1.0 0.74

Storage Life: 2 years in darkness at 5 - 25° C (40 - 77° F) Refrigeration preferred

Color Change: Yellow→Dark Green**

Reaction Principle: $H_2O + Mg(ClO_4)_2 \rightarrow Mg(ClO_4)_2 \cdot H_2O$

<u>Cross-sensitivity</u> Substance	Concentration (ppmv)	Reading* (lbs/ MMCF)
CH ₄	100%	0
СО	200	0#
CO ₂	10%	0#
SO ₂	1500	0#
H ₂ S	2000	<3#
NH ₃	250	35
HCI	300	0#
Methanol	80	0‡
Gasoline	saturated	0
Heptane	saturated	0
Ethylene glycol	saturated	0
Triethylene glycol	saturated	0
Toluene	saturated	0

^{*} Data based on NAGCO pumps and tubes used in standard range.

[#] No interference in mixtures with water vapor. ‡ No response below 80 ppm. Light green stain when methanol is above 80 ppm, 340 ppm alone reads ~30 lbs/MMCF. Water can be measured in a mixture with methanol by reading the dark green stain only, ignoring the light green methanol stain beyond the dark green endpoint.

^{**}Note: Color tends towards purple as temperature decreases.
Other Possible Interferences: Amines, alcohols; no effect of 500 ppm PH