

Water Vapor (Pipeline) H₂O

No. N10-120-10



	Extended Range	Standard Range	Extended Range
Range (lbs/MMCF)	1 - 5	2 - 10	4 - 20
No. of Pump Strokes	4	2	1
Sample Volume (MI)	400	200	100
Sample Time (min) in air	4 x 1.5 min	2 x 1.5 min	1.5 min
(sec) in natural gas	4 x 45 sec	2 x 45 sec	45 sec
Correction Factor	0.51	1.2.	22

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

Linearity with No. of Pump Strokes: I² = 0.99

emperature Range: 0 - 40°C (32 - 104°F)

Temp (°C/°F)	0/32	10/50	23/73	40/104
Corr. Factor	1.1	1.0	1.0	0.9

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

Color Change: Yellow →Green

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

Cross-sensitivity: Substance	Concentration (ppmv)	Reading* (lbs/ MMCF)
CH ₄	100%	0
Propane (C ₃ H ₈)	10000	≤2
Isobutylene	10000	0
Hexanes	3000	0
CO	200	0
CO ₂	3000	0
SO ₂	1500	0
H ₂ S	2000	~1
NH ₃	100	entire tube
HCl	300	0
Ethylene glycol	saturated	0
Triethylene glycol	saturated	0
Methanol	50	0‡
Toluene	400	~1

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

‡ Forms light green stain when methanol is above 70 ppm. Water can be measured in a mixture with methanol by reading the dark green stain only, ignoring the light green methanol stain beyond dark green end point.

Other Possible Interferences: Amines, alcohols. No response to heptanes, octanes as present in 'rich' natural gas or commonly called 'condensate'.