

Technical Specifications



Operation Range

Unit	Minimum	Maximum	Comments
Envision	-4° F	140° F	Heater unit option for low temperatures

Gas Sensors

Gas Sensors	Range	Comments
CH4	0 - 100%	Infra-red cell
CO2	0 - 100%	Infra-red cell
O2	0 - 35%	Electrochemical

Gas Sensor Accuracy

Range	CH4	CO2	O2
0-5%	±0.3%	±0.3%	±0.25%
5-30%	±1.0%	±1.0%	±<1% (Max O2 = 35%)
30 - 100%	±<2.0%	±<2.0%	±<1% (Max O2 = 35%)
Resolution	0.01%	0.01%	0.01%
T90	<30s	<30s	<13s

Pressure Sensors

	Range		
Static	(-)5 H2O to 5" H2O	(-)130" H2O to 130" H2O	Comments
Accuracy	0.1375	+/- 2% of reading	According to sensor manufacture specs.
Resolution	0.001	0.01	
T90	<1 ms	<10 ms	
Differential			
Accuracy	0.1375	+/- 2% of reading	According to sensor manufacture specs.
Resolution	0.001	0.01	
T90	<1 ms	<10 ms	
Available			
Accuracy	NA	+/- 2% of reading	
Resolution	NA	0.01	
T90	NA	<10 ms	

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Note: All statements about sensor accuracy and product tolerances are subject to change in the final released unit. This technical specification sheet will be updated when final product is quoted.

Technical Specifications



Pump Specifications

" H2O	Flow (cc/min)
-138	260

Battery Specifications

Battery Life	up to 500 full charge cycles
Battery Construction	NiMH (no memory)
Charge Time	4 hours from complete discharge

Battery Life (NiMH)

Temperature (°F)	Life (hours)
77	13.8
50	13.1
32	10.5
14	6.6
-4	2.6

WARRANTY EXCLUSIONS AND DISCLAIMER. Elkins Earthworks, LLC. does not guaranty or warrant the results obtained through use of the Products. Accuracy and precision may be affected by:

- 1) improper or inadequate maintenance by customer;
- 2) Customer or third party supplied products, software, interfacing or supplies;
- 3) unauthorized modification;
- 4) improper use or operation outside of the specifications for the product;
- 5) misuse, abuse, negligence, accident;
- 6) or damage caused by accident, lightning or other electrical discharge, fresh or salt water immersion or spray, or exposure to environmental conditions for which the Product is not intended;
- 7) unauthorized maintenance or repair; normal wear and tear on consumable parts (e.g., batteries).

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