

Envision™ Technical Specifications

Operating Temperature Range

Unit	Minimum	Maximum	Comments
Envision	-4°F (-20°C)	122°F (50°C)	Heater option recommended below 14°F (-10°C)

Gas Sensor Accuracy

Sensor	Range	Linearity	Resolution	T90
CH ₄	0 - 100%	± < 2.0% absolute	0.1%	<30s
CO ₂	0 - 100%	± < 2.0% absolute	0.1%	<30s
O ₂	0 - 2% 2 - 25%	± < 0.1% absolute ± < 5% relative	0.1%	<5s

Pressure Sensors

Static	Range -5 to +5 (" H ₂ O)	Range -130 to +130 ("H ₂ O)	Comments
Accuracy	±0.14"H ₂ O	±2% of reading	According to sensor manufacture specs.
Resolution	0.01"H ₂ O	0.01"H ₂ O	
T90	<1 ms	<10 ms	
Differential	Range -5 to +5 (" H ₂ O)	Range -30 to +30 ("H ₂ O)	
Accuracy	±0.14"H ₂ O	±0.6"H ₂ O	According to sensor manufacture specs.
Resolution	0.001"H ₂ O	0.01"H ₂ O	
T90	<1 ms	<10 ms	
Available		Range -130 to +130 ("H ₂ O)	
Accuracy	NA	±2% of reading	According to sensor manufacture specs.
Resolution	NA	0.01"H ₂ O	
T90	NA	<10 ms	
Barometric (Absolute Pressure Only)		Range 22 to 31 ("Hg)	
Accuracy	NA	±0.24"Hg (±8 mBar)	According to sensor manufacture specs.
Resolution	NA	0.1"Hg	
Wired Thermistor Accuracy	±1.8°F (±1.0°C)	Wired Thermistor Range	-22 to +212°F (-30 to +100°C)
Battery Life (cycles)	up to 1000 full charge cycles		Temperature (°F) Battery Life (hours)
Battery Construction	NiMH (no memory)		77 10.6
Charge Time	4 hours from complete discharge		50 10.1
Pump Inches H ₂ O	-138		32 8.1
Flow (cc/min)	260		14 5.1

Note: All statements about sensor accuracy and product specifications are subject to change without notice.



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