



## Technical Specifications Sentry C-2 Ammonia & Nitrate Analyzer

### Measurement Specifications:

Measurement Type	Ion-Selective, In situ
Measurement Range	0.1 – 99.9 ppm
Resolution	0.1 ppm
Reproducibility	Within 5%
Accuracy	+/- 5 % of measurement or +/- 0.5 ppm (larger)
Measurement Response Time	5 minutes

### General Specifications: Controller In Process Sampler Lifter

Dimensions (LxWxH) inches	33.25x14.2x9.4 <i>with controller mounting hardware:</i> 60x14.2x10.3	4.15x43	28 (W) x 156 (L) at maximum extension
Weight	61 lbs. <i>(with controller mounting hardware)</i>	6 lbs.	23 lbs.
Maximum Distance Between In Process Sampler and Controller is 20 ft.			
Enclosure Ratings	NEMA 4x, IP 66		
Temperature Rating (Controller system)	-21° to 140° F (-30° to 60°C)		

### Electrical Specifications:

AC Power Supply	115 VAC 60 Hz
Average Current Consumption	0.6A
Maximum Current Consumption	4A
GFCI incorporated into controller for ground fault protection	

### Data Display, Storage and User Interface:

Display Screen	Sunlight readable LCD 4 lines with 20 characters in each line
Data Storage (Approximate)	1 analysis/hour • 6630 days (18.2 years) 2 analyses/hour • 3692 days (10.1 years) 4 analyses/hour • 1957 days (5.4 years)
Data Storage Medium	Standard 32 MB Compact Flash card
Data Presentation (on display screen)	96 scrollable measurements by date, hour, minute and ppm
User Interface	12 Key keypad

### Data Output:

Analog	Two 4 – 20 mA Isolated, Max load 500 Ohm
Digital	RS-232, RS-422, RS-485 addressable network

### Alarm:

Relay Contacts ( Form A × 4 )	High Limit Alarm, Low Limit Alarm
Relay Contacts ( Form A × 1 )	External warning/alarm
Relay Contacts ( Form A × 3 )	Spare

### Reagent/Solution Consumption:

Estimated Consumption Frequency for Calibration Solution (2.2 L bag) and Ion Strength Adjuster (ISA) Solution (2.2 bag)	1 analysis/hour • 50 days (Cal. Soln.), 83 days (ISA) 2 analyses/hour • 31 days (Cal. Soln.), 42 days (ISA) 4 analyses/hour • 17 days (Cal. Soln.), 21 days (ISA)
(Approximate: Actual usage will depend on wastewater characteristics)	