

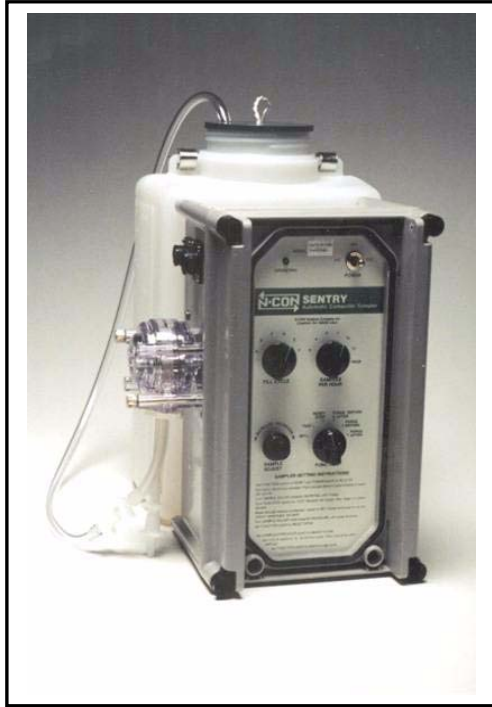
ASM/SENTRY

Product Overview



Automatic Sampling Module

N-CON Systems Co., Inc.



ASM/Sentry lets you use it your way

The ASM/Sentry was designed to be flexible. It can be used as a portable or fixed location, wastewater sampler. Composite may be collected simple time or flow proportioned by connecting it to a suitable flow measurement system, or simple composite sample. The addition of an ice chest or refrigerator to preserve the composite sample, gives you a low cost sampling system. Its no-nonsense design means that you don't have to be a weight-lifter to carry it, a computer expert to program it, or have an unlimited budget to afford it.

The ASM/Sentry composites samples in the sample container of your choice, from one gallon to a 55 gallon barrel. It can also be used to feed a laboratory or pilot plant systems. The ASM/Sentry operates on either line or battery power.

- **Collect** composite samples in container of your choice.
- **Comply** with NPDES and State permit requirements
- **Chill or refrigerate** composite sample in ice chest or refrigerator
- **Collect** flow-proportioned composite samples
- **Simplify** sampling procedures to avoid operator errors and missed samples

How it Works

The ASM/Sentry is placed near the stream or sewer to be sampled. When installed in a manhole, the sampler is positioned above the high water level. The sample inlet line is connected to the sampler's peristaltic (squeeze-tube) pump. The size of each sample is set with the "SAMPLE ADJUST" knob. Next, the "SAMPLES PER HOUR" switch is set to collect 1, 2, 4, or 8 samples per hour, or 1 sample every 2 or 3 hours. The FILL CYCLE Switch is set to turn the sampler off after a set period of time. Finally, the "PURGE CYCLE" switch is set to purge before, after, or both before and after sample collection -- a unique power-saving feature. All switch settings are visible and the system takes the first sample right away so you know it is working before you leave the field.

Technical Specifications

CASE

Screw-sealed, gasketed fiberglass NEMA 4X, with clear Polycarbonate cover
Dimensions: 12-1/2" high, 10-1/2" Wide, 7-3/4" Deep
Weight: 10 lbs

SAMPLER CONTROL PROGRAMMER

Type: Solid state control
Easy to use and review controls:
Samples per hour switch: 1, 2, 4, or 8 samples/hour or 1 sample every 2 or 3 hours
Function switch: Test, Reset, or Set positions with purge selection before, after, or both before and after sample collection
Cycle switch: Used to set system to turn off automatically in 3, 6, 12, 24, 48 or 72 hours.
Reset button on side: Resets cycle time when sample is picked up without opening programmer cover.
Sample volume sample size between 20 and 500 ML
Power switch: AC - OFF - DC
Circuit protection: 3 AMP fuse

PUMP

Type: Peristaltic
Material: Polycarbonate
Bearings: Low-friction ball bearings
Tubing: Silicone rubber (medical grade)
Flow rate: 1350 ML/minute at 3' head
Inlet velocity: 1.5'/second at 3' head
Lift: 20 feet

POWER REQUIREMENTS

Domestic: 115 VAC, 60 HZ, 12 VDC
Export: 220 VAC, 50-60 HZ, 12 VDC
Maximum Power: 45 milliamp continuous,
1 ampere intermittent

FLOWMETER CAPABILITY

Operates in conjunction with any flowmeter providing a momentary unpowered switch closure every preset number of gallons. 4-20 MADC converter is required for analog flowmeter output.

User to supply Sample container of their choice.

OPTIONAL:

20-038 Inlet tubing: 1/4" ID., 3/8" OD clear vinyl with stainless steel inlet weight

19-002 one gallon HDPE jar

19-003 2 gallon rectangular polyethylene

19-005 5 gallon polyethylene

15-508 Battery cable for external, user supplied, 12volt battery

15-010 AC/proportional hook-up cable

11-012PK Pump Tube pack of 4 spares

N-CON Systems Company, Inc.

180 North Street ■ P.O. Box 809
Crawford, GA 30630

(706) 743-8110 ■ (800) 932-6266 ■ Fax: (706)
743-8114

e-mail: nconsys@n-con.com

website: www.n-con.com

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