



See What's Really There™

1900 Multi-Canister Sampling System



1900

MULTI-CANISTER
Sampling System

Next Generation Canister Sampler

The 1900 Multi-Channel Canister Sampler is Entech's next generation solution for collecting air samples in Silonite™ coated canisters for detailed analysis in the laboratory by GC/MS or GC/FID/MS. A dramatically improved flow path now creates far less potential for carryover relative to other commercially available samplers. Mass Flow Controllers and solenoid valves have been eliminated, as these contain elastomeric seals that have been shown to out-gas VOC's, making it difficult to achieve VOC free blanks down to sub-PPBv levels. Instead, the 1900 uses a unique approach to start, control, and stop the sampling process that maintains a clean and easily serviceable sample train, ensuring years of accurate collection of time integrated canister samples.





FEATURING WINDOWS 10 TOUCH SCREEN
PC, WIFI AND 6 HOUR BATTERY BACKUP.



Remote Sampling Made Easy

A WIN10 touch screen controller is integrated into the panel, providing powerful control features and advanced remote operation, reducing the need for programming in the field.

Advantages over real time sampling and other canister sampling systems

More Complete Data

Can analyze samples multiple times if needed to monitor wider range of compounds or if first analysis fails – higher data capture rates provides more complete data to modelers.

Analysts stay in lab

Keeps expensive analysts in the lab rather than traveling out to analytical sites and stuck in traffic.

Cost Effective

Less expensive, even when combined with cost of lab analyzers.

Greater Reliability

All analyzers will have downtime. Canister collection can persist if real time analyzers shutdown, resulting in no data loss.

NATTS Network Compatible

NATTS network compatible for 24hr sampling every 6 days.

Easy Transportation

Can use common courier to send canisters to and from the lab, when sites are more remote.

Flow rates are determined by the rate of change of canister pressure. System calibration is performed automatically by adjusting the time needed to fill a known calibration volume, prior to attaching the canisters, with automatic re-evacuation until the calibration process is completed. This greatly simplifies long term reliability, increases sampling accuracy, and significantly reduces maintenance costs.

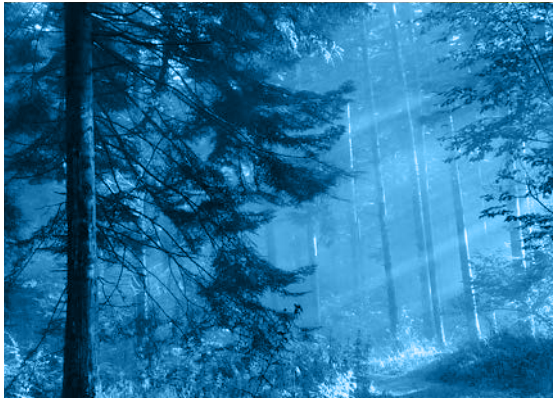


Easy Flow Adjustment of CH1 and CH2

Low cost flow elements change the sampler from being optimized for slow, long term sampling (0.2 to 5cc/min) into canisters from 0.6L to 6.0L, to much faster sampling rates as needed (10–400cc/min). No more expensive mass flow controllers to have to change out.

Featured Products

Description	Unit	Part #
1900 - Multi Canister Sampling System	EA	1900
Optional 8 Position Expander	EA	1900-8CH-EXPAND
DC Inverter		1900-01
16 Position Canister Expander	EA	1916



**ALL SILONITE™ COATED LINES FOR MAXIMUM RECOVERY
AND MINIMAL CARRYOVER. NO PRESSURIZED SAMPLING
WHICH IS KNOWN TO DAMAGE CANISTERS DUE TO WATER
CONDENSATION AND SUBSEQUENT AQUEOUS BASED
REACTIONS AND POTENTIAL MOLD GROWTH**

Options for Occasional Sampling to Continuous Monitoring

Channel 1 can be configured in a few different ways to improve system flexibility.

- ◆ Single canister for event triggered sampling based on other sensors or remote sampling requests.
- ◆ 8-Channel expander for programmed sampling, or extended 8 event sampling.
- ◆ 16 position expansion module (1916) for filling self contained 3.2L Silonite coated canisters with no external tubing connections.
- ◆ Very compact!



1 Full Month of Sampling

Can do 1 month of unattended 24 hour sampling for historic database generation.

Ease of Use

No mass flow controllers to remove and calibrate yearly.

Lower Contamination

Does not use either solenoid valves or mass flow controllers, so contamination levels are much lower.

Accuracy

Much more accurate fill rates that achieve exact end pressures every time.

32 Position Sampler

The only 32 position sampler on the market. Allows up to 4 days of operation when sampling every 3 hours.



Compatible

Micro-QT compatible which makes canister connection a Snap!



*The Recognized Global Leaders
in Environmental Air Analysis.*

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