

TE-323 Canister Sampler

The New TE-323 Canister Sampler meets all requirements of EPA Compendium Method TO-14/TO-15. The canister sampler meets EPA protocols for collection of ambient Volatile Organic Compounds (VOC).

TE-323 Canister Sampler



Features:

- ☑ Instruction on how to operate sampler is on the menu on the front operating panel
- ☑ Remote starting on all 3 sample channels from your site data logger.
- ☑ Sampler will operate on 100 to 240v ac 50/60 hz or 12 dc battery, car lighter, solar panels, UPS system.
- ☑ 19-inch rack mount and table top rubber feet.
- ☑ Condensation trap.
- ☑ Flow rates are 1-300 ml/min.
- ☑ Individual stainless steel vacuum and pressure gauges for each canister port.
- ☑ Each channel has its own elapsed timers for the pump and sample to ensure chain of custody and Q. C. management of data.
- ☑ Lights for each sample channel allows the site operator to see what is running in a noisy shelter.
- ☑ PV has battery back-up and will retain memory and on/off times for 365 days when sampler is off or unplugged.
- ☑ A three-way valve allows the sampler to purge itself and adjustment of the flow rate just before the canister ports. When the sample starts to the canister it takes the flowmeter out of the sample
- ☑ TE-232-1 instrument shelter for this sampler, with remote sampling, batter power, solar panel charging system
- ☑ Auto lighter plug for source sampling or emergency response.
- ☑ Run two or three cans at once to Q.A. canisters from field site.
- ☑ Sampler will fill 6 liter can in 40 min. or less to 10 psi
- ☑ Sampler can be ordered with one to three channels
- ☑ Add on channels: up to a total of 8 canister channels.
- ☑ Extra flow regulations can also be added to allow use of different run times
- ☑ There is no limit on sampling events.
- ☑ Save labor with a multi-event sampler.
- ☑ Proven dependability in state agencies.

The front Uniop Operator Panel is a back-lighted panel with four lines, 20 characters and controls the Siemens PLC. It lets the operator scroll through the preprogrammed menu to control the ON and OFF times of pump and canister sampling channels. It also allows the operator to set the days of the week on which the sampling will take place and it will keep the total elapsed time of each channel and pump run. Each channel page show the site time and the run day of the week.

The Tisch TE-323 Canister Sampler takes air from the inlet on the pump and injects it into three (3) separate canisters at a constant flow rate for a preset time. The excess air is released through the bypass exhaust. The constant flow rate and elapsed time allow the operator to compute the volume of integrated air samples and set the flow using the built in flowmeter. The flowmeter is only inline and showing the flow rate when the pump is running and the sample channels are off. The flowmeter is taken out of the sampling path when the sample to the canisters is activated. The samples are pumped through a 12V D.C. pump, which develop sufficient pressure to control the flow with a regulator. The pump also samples the air at a flow rate of 5 L/min which keeps any long inlet sample lines flushed.



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A small, constant flow of sampled air is pumped into the sample canisters. You can set the sampler to turn on the pump for any purge time before the sample time is turned on. Following sampling, the pump is turned off, the sample channel solenoid valve is turned off and a check valve seals the canister until an operator can close the canister valve. The water trap on the front panel keeps excessive water out of the sampling path. All tubing inside sampler is Chromatograph-grade stainless steel. A 47mm inlet particulate filter is attached to the pump inlet on the back of the sampler. A Teflon-impregnated glass-fiber filter is used inside the filter holder to trap particulates. All gauges are stainless steel and are leak-free and nonbiasing.



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