

Manning Portable Samplers

- Accurate, repeatable sample volumes
- Rugged NEMA 4X ABS plastic enclosure withstands harsh environments
- Choose from vacuum (VST) or peristaltic (PST) models

Manning portable samplers provide accurate, repeatable sample volumes for a wide range of applications. Choose from vacuum style samplers or peristaltic samplers. Both styles have a rugged NEMA 4X/NEMA 6 ABS housing with stainless steel hardware that stands up to the harshest sampling environments. These features, along with watertight connectors, ensure long service life.

The controller's large backlit display is simple to set up, even in the dark! It offers advanced features such as datalogging, review of settings and operating status, and a variety of flow-and time-based operating modes. Simple prompts and a 24-key keypad, including shortcut keys, save time by avoiding frustrating navigation through long, complicated menus.

You can add up to 15 lbs of ice to the sampler housing to maintain the EPA-recommended 4°C even in high ambient temperatures. An optional suspension harness is also ideal for hanging the sampler in manholes and other tight spaces. At 25 lbs, the PST can be easily transported to remote sites.

VST vacuum samplers feature a high 5 ft/sec transport velocity

VST vacuum samplers deliver sample volumes within 5.0% of pre-set volumes versus the ±10 mL typical of most peristaltic samplers. Changes in vertical or horizontal head height will not affect the sample volume taken. Due to the high transport velocity (5 ft/sec versus the EPA recommended minimum of 2 ft/sec) of samples taken by the VST sampler, you can be assured you are receiving the most representative sample possible.



PST Peristaltic Sampler

Economical PST peristaltic samplers easily meet EPA criteria

PST peristaltic samplers employ a field-proven 3/8" ID peristaltic pump to collect samples. This pump easily meets EPA criteria for representative intake velocities, and is constructed of advanced thermoplastics to resist corrosion and ensure rigidity. The rollers and tubing of each pump can be visually inspected without taking the pump apart.

To reduce maintenance and replacement costs, the 3/8" ID pump uses long-life silicone rubber tubing. The PST outperforms other peristaltic brands by delivering consistent and accurate sample volumes even with changing head heights. For safety, removing the clear pump cover stops powered rotation of the pump.

Ordering Information

Samplers are available in single- or multiple-bottle configuration. Multiple-bottle samplers can be converted to single-bottle units by purchasing the multiple- to single-bottle conversion kit (stock # 28843; see page 1654). Single-bottle samplers must be returned to the factory for conversion to multiple-bottle units.

Model VST portable vacuum samplers include: 12-VDC battery, battery charger, contact closure and 4-20 mA input, 3' input cable, 2.5-gallon PE bottle (stock # 28876) or (24) 1-L PE bottles (stock # 28878), 25 ft of 3/8" or 5/8" ID PVC hose and Stainless Steel strainer (3/8" ID only).

Model PST portable peristaltic samplers include: 12-VDC battery, battery charger, contact closure and 4-20 mA input, 3' input cable, ultrasonic liquid sensor, 2.5-gallon PE bottle (stock # 28875) or (24) 1-L PE bottles (stock # 28879), 25 ft of 3/8" PVC hose and SS strainer.

MFR #	DESCRIPTION	STOCK #	EACH
VST VACUUM SAMPLERS WITH 3/8" ID TUBING INTAKES			
VST3B2BC6C3	24-Bottle Sampler	28878	\$
VST3B2BA2C3	1-Bottle Sampler	28876	
VST VACUUM SAMPLERS WITH 5/8" ID TUBING INTAKES			
VST5C2BC6G2	24-Bottle Sampler	28880	\$
VST5C2BA4G2	1-Bottle Sampler	28881	
PST PERISTALTIC SAMPLERS WITH 3/8" ID TUBING INTAKES			
PST8B2B2C6C3	24-Bottle Sampler	28879	\$
PST8B2B2A2C3	1-Bottle Sampler	28875	
ACCESSORIES			
MS889825	110/220 VAC, 1.8A Current Limiting Charger	28837	\$
MS885400	110/220 VAC, 0.75A Current Limiting Charger	28838	
MS889934	Power Supply (Use in Place of Battery), 110 VAC	79647	



VST Vacuum Sampler

Temperature limits:	32 to 122°F
Sample cooling:	bottle case holds up to 15 lbs of ice and has average thermal resistance factor of R-12
Maximum lift:	28 ft
Transport velocity	
VST:	4.396 ft/sec @ 5 ft of lift
PST:	2 ft/sec @ 5 ft of lift
Sample volume:	programmed directly in 1-mL increments from 0 to 2000 mL
Accuracy	
VST:	±0.5 mL or ±0.5% of pre-set volume (whichever is greater)
PST:	±5 mL or ±5% of pre-set volume (whichever is greater)
Repeatability	
VST:	±0.5 mL or ±0.5% (whichever is greater)
PST:	±5 mL or ±5% (whichever is greater)
Liquid sensor (PST only):	non-contacting ultrasonic
Sample programming:	includes but not limited to: flow proportional pacing (contact closure), totalized flow pacing (analog input), flow pacing with time override, flow pacing with delay sampling, flow pacing with maintained event sampling, uniform and non-uniform time intervals, multiple bottles per sample, multiple samples per bottle, multiple bottle compositing, bottle grouping, sampling based on external input device, program delay (time or flow), stormwater sampling, datalogging (512 event capacity).
Internal clock:	indicates real time with ±1 minute per month accuracy
Internal battery backup:	5-year lithium battery to maintain program logic, RAM, and clock
Power requirements:	external 12V battery with 110-VAC charger, 8 Ah (28878 & 28876) or 18 Ah (28880 & 28881) battery or optional 110/220 VAC power supply (for use without battery)
Input/output:	contact closure and 4-20 mA input; RS-232 output (optional)
Dimensions:	17.5"Dia x 27.75"H
Weight (dry):	25 lbs without battery and with empty sample bottle(s)