



MANUAL PERISTALTIC SAMPLING PUMP • PORTABLE

Model MSP250 Manual Peristaltic Sampling Pump

Based on customer requests for a simple, lightweight, rugged, cost-effective, no-frills manual grab-sample pump, Manning engineered the MSP250. It eliminates complex programming and difficult controls, letting operators grab it and go regardless of experience or training.

A single-switch interface manages forward, reverse, and off. This gives operators immediate, manual control to purge lines, rinse equipment, and collect precise sample volumes, repeatedly.

For advanced applications requiring variable flow rates, an optional Pulse Width Modulation (PWM) speed control is available upon request.

**FLUID PATH**
1/4-in**TRANSPORT VELOCITY**
927 mL/min**RATED TUBE LIFE**
10,000 hrs**WEIGHT**
11.5 lbs**POWER**
12 VDC

@ 10 ft head height. Weight includes battery.



Reliable Peristaltic Pump

Field-proven 1/4-in (6.35 mm) ID, 3-roller peristaltic pump with an impact- and corrosion-resistant plastic pump body. This is the same pump used on Manning's popular PSB model, delivering consistent transport velocity well suited to grab and pull large or small composite samples. Pharmed® tubing is highly chemical-resistant and can provide up to 10,000 hours of tube life.



Simple and Safe

A single switch controls forward, reverse, and off — that's it. Purge or rinse the line as many times as needed, then draw a sample of any size, with the pump starting and stopping immediately for complete control of the sampling process. No menus, no programming. The MSP250 is a great solution for safety: set up an intake line for restricted-entry or hard-to-reach locations where a dipper cup won't work, so you don't have to enter the space. Twist on the hose and grab your sample.



Durable, Portable Construction

Engineered for harsh environments, the entire system is housed within a rugged Pelican® case. Constructed from impact- and corrosion-resistant structural resin, the enclosure is rated NEMA 4X/6 for superior environmental protection. The complete unit secures neatly inside the carrying case, making it exceptionally easy to transport between sampling points.



Battery-Powered, Ready to Go

The MSP250 arrives fully equipped and ready for immediate deployment: each unit includes an 8Ah AGM battery and charger, high-durability pump tubing, and two sets of male/female barbed quick-disconnect fittings for intake and outflow fluid lines.



Streamlined Multi-Site Sampling

Optimize your multi-site workflows by leaving dedicated intake tubing permanently installed at each location. When you return for your next round of testing, the standard quick-disconnect fittings let you snap the pump into place and begin sampling immediately. Additional quick-disconnect fittings and bulk hose options are available separately to fully customize your field operation.



Manning MSP250 Manual Sampler — Specifications

Size (H × W × D)	Controller, including pump housing: 6.5 × 12.75 × 10 in (165 × 324 × 254 mm)
Weight (dry)	11.5 lbs (5.2 kg). Weight includes battery.
Environmental Protection	NEMA 4X/NEMA 6 structural resin housing around electromechanical components.
Sample Pump	1/4-in (6.35 mm) ID peristaltic 12 VDC pump, 3-roller mechanism, corrosion- and impact-resistant plastic pump body.
Wetted Parts	Minimum internal diameter 1/4-in. Strainer (optional): PVC or stainless steel. Pump tubing: Long-life Pharmed®, sized for the 1/4-in ID pump.
Maximum Lift	28 ft (8.5 m)*
Transport Velocity	927 mL/min @ 10 ft (3.05 m) head height
Controls	Single 3-position switch: Forward / Off / Reverse. No programming or display.
Battery	Rechargeable 8-amp-hour AGM battery, includes three-stage 850 mA float charger.
Carrying Case	Pelican® case, watertight and latching, houses the controller, pump, and battery for field transport.
Included Accessories	One pre-cut length of pump tubing with two sets of male/female quick-disconnect fittings.

*20 ft (6.1 m) lift recommended for general use. Suction Height/Driving Pressure: 0 ft/14.73 psi, 10 ft/9.3 psi, 20 ft/4.4 psi, 25 ft/1.9 psi. Ask about booster pump setups.

Operation

- One switch: forward, reverse, off
- Immediate start / stop control
- Draw a sample of any size, on demand
- Purge or rinse the line as many times as needed
- No programming, menus, or display to learn
- Sample liquid under forced flow at all times — no metering chamber, distribution plate, or valves

Warranty

One year warranty.



Ordering Information

Basic sampler includes: one 8-amp-hour battery, one battery charger, one 18-in pre-cut length of pump tubing, two sets of male and female quick-disconnect fittings, for fluid in and fluid out. Bottle, intake hose, and strainer are ordered separately.

Category	Item
Pump Tubing	Pre-cut 18-in length · Bulk, sold by the foot
Battery	Standard 8-amp-hour rechargeable AGM battery
Battery Charger	Standard-output rapid/float three-stage charger, 12 VDC @ 800 mA (110/220 VAC, 50/60 Hz)
Quick Disconnect Fittings	Female fitting · Male fitting
Strainer (optional)	PVC, 1/4-in
Bottle	Not included — ordered separately based on application
Intake Hose	Not included — ordered separately based on application

Contact Manning Environmental for current part numbers and pricing on spare and replacement parts, or visit our website.



Engineering Specification

Written for direct use in submittals. Plain numbered list, no design elements — copy and paste as needed.

1. The sampler is suitable for manual collection of grab or composite liquid samples in the field.
2. The controller enclosure is made of structural resin with NEMA 4X/NEMA 6 rating.
3. All wetted parts have a minimum internal diameter of 1/4 inch (6.35 mm). Strainer (optional): PVC or stainless steel. Pump tubing: Long-life Pharmed®.
4. The sampler incorporates a 3-roller, 1/4-in (6.35 mm) ID peristaltic pump with a corrosion- and impact-resistant plastic pump body.
5. The sample liquid is under forced flow at all times and does not pass through a metering chamber, distribution plate, or valves.
6. The sampler is capable of a transport velocity of 927 mL per minute at a 10 ft (3.05 m) head height.
7. Maximum lift is 28 ft (8.5 m).
8. Operation is controlled by a single switch: forward, reverse, or off. The sampler requires no programming and includes no display.
9. The sampler is powered by a rechargeable 8-amp-hour battery with a three-stage rapid/float charger; a 110/220 VAC 50/60 Hz charger option is included.
10. The controller, pump, and battery are housed together in a rugged, watertight carrying case for field transport.
11. This sampler is a Manning Model MSP250 Manual Peristaltic Sampling Pump.

In the interest of improving and updating its equipment, Manning reserves the right to alter specifications for equipment at any time.