

MP10 Digital Groundwater Sampling Controller

Expert Flow & Drawdown Control for Low-Flow Groundwater Sampling

Simple, stable, repeatable flow rate setting

The MicroPurge® MP10 Controller revolutionizes low-flow ground water sampling with advanced logic control of purge flow and well drawdown. Simple up-down arrow keys increase and decrease purge flow to meet low-flow requirements. Once optimized, settings can be easily recalled in the next round of sampling.

The MP10 also offers an easy way to prevent excessive drawdown during purging of monitoring wells, by linking to the optional [MP30 Drawdown/Water Level Meter](#).



The lightweight, compact MP10 leads the field with genuine MicroPurge low-flow groundwater sampling equipment, the most complete line of equipment for low-flow sampling.

QED's MicroPurge sampling equipment is lighter and more portable, and increases sampling crew productivity. Simplified, sealed electronics are put together in a design that delivers famous QED long term durability and value under true field use conditions.

How the MP10 Works



Multi-mode digital control

The MP10 gives you three easy-to-use operating modes, to cover every sampling protocol and situation.

MicroPurge (MP) Mode quickly optimizes control settings to reach the desired pump flow rate. You don't have to worry about calculating pump cycles or refill and discharge times.

ID Mode instantly recalls optimized settings previously established for each well, providing precise, consistent performance from event to event.

User Set (MN) Mode provides manual control of pump operation for extreme depths and other special cases.



Pressing the UP Arrow increases the bladder pump flow in controlled steps,



The DOWN Arrow Key decreases the pump flow rate in controlled steps.



The LEFT/ RIGHT Arrow Key adjusts the Cycles Per Minute (CPM) of your pump.



The ID Number changes when an UP or DOWN Arrow is pressed. This number can be used in ID Mode to recall the setting for the next sampling round.



The CYCLE Key Starts and Stops pump cycling.

MP10 Advantages

- Exclusive MicroPurge control mode uses simple arrow keys to adjust low-flow rates easily and repeatedly, using a micro-processor to re-create the flow adjustment strategies used by experienced ground water samplers.

- Exclusive drawdown control via link to optional MP30 Drawdown/Water Level Meter, which signals MP10 Controller to enter paused pumping when drawdown limit is exceeded.

- Multi-mode digital control includes MicroPurge Mode, ID Mode for repeat events, and manual control.

- The proven reliability and durability leader-weatherproof controls are housed in a rugged, compact



The MODE Key changes modes from default MP (MicroPurge) to ID Mode to MN (User Set) Mode. This key also allows battery check.



Pressing the PAUSE Key puts the controller in HOLD Mode, stopping flow. A second press starts the SAMPLE mode, which starts a continuous discharge cycle for controlled sample vial filling without interruption. A third press returns the system to normal cycling.

10-3/4" x 9-3/4" x 5" (27 x 25 x 13 cm) case.

- Full digital display of all setting and status information.

The MP10 Controller can be used with any any bladder pump system, with the use of simple adapters

Specifications

Model No.	MP10
Dimensions	10-3/4"x9-3/4"x5" (27x25x13 cm)
Weight	5.5 lbs (2.5 kg)
Case Material	Structural Resin
Keypad	6 Keys
Display	2 Line, 16 Character / LCD Display
Power	3 "AA" batteries
Battery Life	50,000 Cycles @ 70°F (21°C)
Max. Pressure	120 PSI (827.5 kPa)
Max. Pump Depth	250 Feet (76 m)
Operating Temperature	-20 - 150°F (-29 - 66°C)
Connection to MP30 Drawdown Meter	heavy-duty cable (supplied with MP30)

Note: MP10H and MP10UH models available for depths up to 1,000ft (304.8m)

MicroPurge System Diagram

The MicroPurge Groundwater Sampling System has been designed for complete integration of the MP10 Digital Groundwater Sampling Controller and its gas power source, MP20 Flow Cell and MP30 Drawdown & Water Level Meter. The diagram below shows a complete MicroPurge Groundwater Sampling System with the MP10 Digital Controller driving the sampling pump.

Move your mouse over the components of the groundwater sampling system below to learn more about each component of the MicroPurge System.