



QUICK DEPLOY GUIDE



PVS5120

Portable
Water Samplers

Time-Based Control
and SDI-12 Control
Options



PVS5120C Shown.
Quick Deploy Guide PN 31278 03/15

Info
Link



IMPORTANT NOTE: This Quick Deploy Guide is a general reference guide to give the installer an overview of the steps required to make this system operational. The Owner's Manual is the definitive source for detailed installation instructions and information.

Caution!

- When sampling hydrocarbons, grease, oil, etc., regular cleaning of the metering chamber, volume control tube, liquid detect/conductivity rod, and intake flow tubing is essential for continuous successful sampling.
- Placing the end of the intake tubing directly on sand and gravel beds can result in unrepresentatively high sediment loads being collected. If a strainer is not used, gravel and sand may lodge in and plug the intake tube, metering chamber, and sampler distribution body (discrete sampler only).
- Connecting the battery cables improperly will cause the PVS5120 fuses to blow in order to protect the unit. Replace them with the same rated fuses as the originals. (28314-5A, 28315-10A)
- Before deploying, check all connections, intake tubing, vacuum tubing, and the meter chamber cover for proper tightness and seating to prevent air leakage.
- Exercise proper lifting techniques when lifting this product.
- Damages caused by freezing conditions will not be covered by the warranty.
- When the PVS5120 is being stored for periods of time, disconnect the battery to reduce discharge over time.

Figure 1A - PVS5120D



Figure 1B - USB Cable



Figure 1C - Control Cable



Figure 1D - Power Cable



Introduction: This guide provides the steps to setup and run in two common deployments: A) time based control (no datalogger needed) and B)SDI-12 control with a datalogger.

1 Required Equipment

- PVS5120 (top, control section, base with bottles)
- 7/8" wrench (adjusting rods)
- 9/16" wrench (adjusting rods)
- 5/32" Allen wrench (adjusting rods)
- Small flat head screw driver (wiring to datalogger)
- USB cable (connecting to VSC100)
- Control cable (connects datalogger to sampler)
- 12V Battery
- External power cable (only if using an external battery)
- Datalogger with its own power supply, protected in an enclosure if necessary
- 3/8" hose clamp to connect intake hose to the sampler
- Laptop computer with Device Configuration Utility (DevConfig 2.09 or higher)
- 1/4" nut driver (to tighten hose clamps)

2 Physical Deployment

Refer to Figure 1A.

- Loosen the brass nut to set the volume control tube to the approximate volume required for collection by aligning the base of the rod with the graduated marking on the metering chamber. It is best to collect this volume at least once to make sure it matches expectations. If necessary, adjust the tube up or down to obtain the desired collection volume.
- Set the height of the conductivity rod. The bottom of the conductivity rod must be higher in the metering chamber than the volume control tube (at least 1/2"), but below the bottom of the float valve barrier.
- Connect the positive lead to the top of the conductivity rod (yellow cap).
- Connect the battery.
 - If using an internal battery, place it in the mount and connect the red and black leads to the matching terminals.
 - If using an external battery, make sure the external power cable (Fig. 1D) is stripped and the correct leads are in place to connect to the battery. Connect the external power cable to the front of the sampler (Fig. 2).
 - Connect the yellow caps around the fuse.

Figure 2



- Turn on the sampler and set the 3-way switch on the control panel to the power source being used (Fig. 2). If powered correctly, the green indicator light (Fig. 2) will come on for several seconds, and then start blinking green once per second.
- Connect the intake hose and tighten the hose clamp.
- Put the sinker end of the intake hose into the water body to be sampled, ensuring at least 3 inch depth.
- Run the Autodeploy routine by pushing and holding the manual control button until the sampler begins running (hold the button shown in Figs. 2

Figure 3

Manual Control Button	Function	Button-User Action
	Service	Press once
	Manual Sample	Press twice
	Auto Deploy	Press and hold, release when sampler runs