



WS700 and WS750 Water Samplers

Takes Composite and Discrete Samples to Meet Many Sampling Requirements

Description

Our new WS700 single-bottle and WS750 two-bottle samplers combine all of the features you need to meet a wide variety of sampling requirements, including those for stormwater, industrial discharge, water and wastewater treatment, waste collection systems, and rivers and streams.

The WS700/750's state of the art controller gives you power over your sampling process. With the sample size control, you can take individual time-weighted composite samples or full-bottle discrete grab samples. The sample interval control allows you set the time between individual composite samples or enable the external trigger mode. A start delay timer allows you to start multiple samplers in the field at the same time, or to delay drawing a sample after a triggering event so that your sample better represents the water source. An automatic 15-second backflush cycle clears any debris from the strainer and empties the water from the hose so the next sample is not contaminated.

A unique feature of the WS750 model is the ability to set the sampling mode for each pump and bottle individually. This allows you to take a time-weighted composite sample *and* a discrete (grab) sample *at the same time*. Or you can take two individual time-weighted composite samples with different size settings for each pump.

Both the WS700 and WS750 include a trigger input for each pump/bottle to control sample collection from an external signal like a water level sensor, rain

gauge sensor, external process controller, or other monitoring device. Pulse outputs for each bottle are also provided for tracking sample collection information via a datalogger or other monitoring device. See the ordering chart on the reverse for a list of compatible sensors and dataloggers that may be used with the WS700 and WS750 models.

The WS700 and WS750 samplers are housed in rugged, weatherproof enclosures with handles on top and one side for easy portability. Both units include 15' of reinforced sampling hose with intake strainer for each pump, a 1 gallon (WS750) or 2.5 gallon (WS700) poly-bottle for each pump, and a rechargeable battery and charger. Our optional WS700-IBO Ice Bag Option includes an insulated ice pack for the bottle so you can maintain the integrity of your sample. For stormwater sampling, add the WSSWK Stormwater Kit, which includes our CA0400 Rain Sensor, CA0500 Flow Sensor, and CH0000 Auto-drain Rain Gauge all in one package.



Features

- Easy to use, state of the art controller
- Does composite or discrete sampling, or both at the same time (WS750)
- Output provided for use with optional datalogger
- Automatic backflush clears pickup strainer and hose

Applications



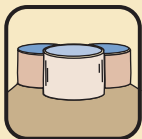
Stormwater
Stormwater Sampling



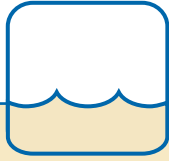
Surface Water
River Sampling
Stream Sampling



Water Treatment
Water Treatment Sampling



Wastewater
Industrial Discharge Sampling
Waste Collection Sampling
Wastewater Treatment Sampling



Sampler Installation

Sampler Case

The sampler should be installed upright and adjacent to the water source. Locate the unit above the expected water level to ensure reliable service. To secure the sampler from vandalism or strong winds, you can:

- Mount the sampler on a post and lock it closed.
- Lock the sampler and chain its handles to a solid structure.
- Enclose and lock the sampler inside a steel electrical box.

Pickup Hose

Place the pickup hose within the water source. The pickup strainer should be submerged under water and situated to avoid contact with the bottom.

Composite Sampling

A composite sample is a series of small samples put into the same bottle. Composite samples show an "average" sample over time. You can take a composite sample with the WS700/750 by setting the 'Interval' control to the desired time between samples, and the 'Size' control to the desired sample size.

Discrete Sampling

A discrete sample is a single sample put into a single bottle. Discrete samples show a sample at one point in time. Using the WS700/750, you can take discrete samples by setting the 'Sample Size' control to 'Full.' Once started, the pump will continue to run until a single bottle is full.

WS700 and WS750 Water Samplers

Specifications

General

Operating Temperature	0° to +70°C
Size of Unit	22"H X 17"W X 9"D
Weight	22lb (Shipping Weight 24lb)

Materials

Enclosure	Expanded UV protected PVC
Bottle(s)	Polyethylene WS750: Two 1-gallon WS700: One 2.5-gallon
Pickup Hose	15', ¼" ID, nylon-reinforced, PVC tubing with SS strainer(s)
Pump Tubing	Norprene ¼" ID, 7/16" OD

Sample Pump

Flow Rate	1000 ml per minute at a 4 foot head
Type	Peristaltic
Maximum Lift	~20 feet

Battery

Battery Type	Rechargeable 4.5 AH Gel Cell
Battery Life	WS700: ~1 hour WS750: ~½ hour Continuous pumping under load

Operation

Start Delay	16 time settings from 0 to 12 hours
Composite Interval	15 time settings from 5 min. to 12 hours plus an external trigger mode setting
Sample Size	15 composite sample sizes from 50ml to 2 liters plus a full bottle discrete setting (approximate sizes at 4 foot head)

Inputs & Outputs

External Trigger Input(s)	250mS minimum pulse width switch closure or 4-24VDC
Pulse Output(s)	5VDC one-second pulse, 1000ohm output impedance
Bottle Switch Input(s)	Float switch in bottle
Rain & Water Sensors	Optional moisture sensors or switch closure inputs
Internal Fuse	10A Slow-Blow

Options & Ordering

Samplers

Order #	Bottles	Inputs	Outputs	Price
WS750	2	2	2	\$1,150.00
WS700	1	1	1	1,095.00

Options & Accessories

Order #	Description	Price
WS700-IBO	WS700 Sampler with Ice Bag Option	\$1,205.00
WSSWK	Stormwater Kit	150.00
WSLO	9-Channel Datalogger	595.00
01-342	Quick Release Pump Head	155.00
FN0000	Smart Battery Charger	99.00

Replacement Parts

Order #	Description	Price
00-010	Spare 12V Gel Battery	\$30.00
FE0400	Battery Charger	17.00
00-418	1-Gallon Plastic Bottle (WS750)	15.00
00-419	2.5-Gallon Plastic Bottle (WS700)	12.00
00-835	1-Gallon Glass Bottle*	20.00
CB0200	Bottle Cap/Float Switch	28.00
CA0300	SS Suction Strainer	50.00
00-546	Suction Hose, per foot	1.53/ft
00-744	Peristaltic Pump Tubing, per foot	5.25/ft

* Note: Only one glass bottle will fit in sampler case without removing battery.



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