

Avalanche[®]

Multi-Bottle Portable Refrigerated Sampler

Avalanche is based on Teledyne ISCO's industry-leading 6712 controller. You get all the advanced control, data logging, and communication features of the 6712, with cooling from either AC or battery power.

Advanced sampling and data logging with transportable, dual-power cooling

Bottle options include 5- and 2.5 gallon composites as well as 4 x 1-gallon and 14 x 950 ml sequentials.

A 12V deep-cycle battery delivers 48 hours—or more—of refrigeration. The power-saving cooling system remains on standby until the first sample is drawn, and only then switches on to preserve the collected samples for pickup.

Available routines include: pause-and-resume for intermittent-discharge flow monitoring; sampler pacing by time, non-uniform time, flow or external event; and random interval sample collection.



Optional mobility kit includes pneumatic tires for ease of transport over rough terrain, and a convenient battery platform.



Applications:

- Stormwater Runoff Compliance
- TMDL and Watershed monitoring
- Enforcement Monitoring
- Anywhere you need advanced sampling capability combined with data logging and communications for flow, rainfall, and water quality parameters—plus reliable, on-demand cooling

Standard Features:

- Standard and extended programming keeps setup simple when you don't need advanced features
- NEMA 4x, 6 (IP67) controller enclosure is watertight and dustproof
- SDI-12 interface provides "plug and play" connection with multi-parameter water-quality sondes and other compatible devices
- Standard 512kB memory gives you great flexibility for logging environmental data
- NEMA 4X, 6 (IP67) controller enclosure
- Sample delivery at the EPA-recommended velocity of 2 ft/sec., even at head heights of 26 feet
- Patented pump revolution counter ensures accurate sample volumes—and tells you when tubing should be replaced

Avalanche Sampler

Size (H x W x D):	30.5 x 14 x 24 in (78 x 36 x 60 cm)
Weight:	Dry, less battery—76 lbs (35 kg)
Bottle configurations:	5-gallon poly bottle 2.5-gallon glass bottle configuration 2.5-gallon poly bottle configuration 1-gallon poly bottle configuration (4 bottles) 950 ml poly bottle configuration (14 bottles)
Power Requirements:	12V DC (Supplied by battery or AC power converter.)

Pump

Intake suction tubing:	
-Length:	3 to 99 ft (1 to 30 m)
-Material:	Vinyl or Teflon
-Inside dimension:	3/8 in (1 cm)
Pump tubing life:	Typically 1,000,000 pump counts
Maximum lift:	28 ft (8.5 m)
Typical Repeatability:	±5 ml or ±5% of the average volume in a set
Typical line velocity at Head height of:	
	3 ft (0.9 m) 3.0 ft/s (0.91 m/s)
	10 ft (3.1 m) 2.9 ft/s (0.87 m/s)
	15 ft (4.6 m) 2.7 ft/s (0.83 m/s)

Liquid presence detector:	Non-wetted, non-conductive sensor detects when liquid sample reaches the pump to automatically compensate for changes in head heights
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Controller

Weight:	13 lbs (5.9 kg)
Size (HxWxD):	10.3 x 12.5 x 10 in (26 x 31.7 x 25.4 cm)
Operational temperature:	32 ° to 120 °F (0 ° to 49 °C)
Enclosure rating:	NEMA 4X, 6 (IP67)
Program memory:	Non-volatile ROM
Flow meter signal input:	5 to 15 volt DC pulse or 25 millisecond isolated contact closure
No. of composite samples:	Programmable from 1 to 999 samples
Clock Accuracy:	1 minute per month, typical, for real time clock

Software

Sample frequency:	1 minute to 99 hours 59 minutes, in 1 minute increments. Non-uniform times in minutes or clock times 1 to 9,999 flow pulses
Sampling modes:	Uniform time, non-uniform time, flow, event. (Flow mode is controlled by external flow meter pulses.)
Programmable sample volumes:	10 to 9,990 ml in 1 ml increments
Sample retries:	If no sample is detected, up to 3 attempts; user selectable
Rinse cycles:	Automatic rinsing of suction line up to 3 rinses for each sample collection
Program storage:	5 sampling programs
Sampling Stop/Resume:	Up to 24 real time/date sample stop/resume commands
Controller diagnostics:	Tests for RAM, ROM, pump, display, and distributor

Ordering Information

Note: Bottle configuration, suction line, and strainer must be ordered separately. 12 VDC operation requires external battery. Contact Teledyne ISCO or your local Representative for complete information.

Avalanche Sampler (115-230 VAC/12V DC) Includes controller, distributor arm, instruction manual, pocket guide. Standard power cord.	68-2970-003
5-gallon poly bottle	68-2970-008
2.5-gallon glass bottle configuration	68-2970-006
2.5-gallon poly bottle configuration	68-2970-009
1-gallon poly bottle configuration (4 bottles)	68-2970-002
950 ml poly bottle configuration (14 bottles)	68-2970-001
Mobility Kit	68-2960-004

REPRESENTED BY:

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