TELEDYNE ISCO
Everywhereyoulook™

Glacier®

5800

6712FR

Avalanche®

GLS

3700

6712

Sampler Selection Guide

Advanced Automated Sampler Products From Teledyne Isco

With more than four decades of industry leadership, Teledyne Isco continues to advance automated water and wastewater sampler technology by developing durable and innovative products.

We offer a wide range of samplers to meet your specific application needs. For in-depth information on Isco sampler products, contact your authorized Isco representative, or visit us on the web at www.isco.com/as.

Wastewater Treatment

- Municipal Wastewater Treatment
- Industrial Pretreatment

Collection Systems

- Combined Sewer Overflows (CSOs)
- Sanitary Sewer Overflows (SSOs)
- Industrial Pretreatment Monitoring
- Enforcement Monitoring

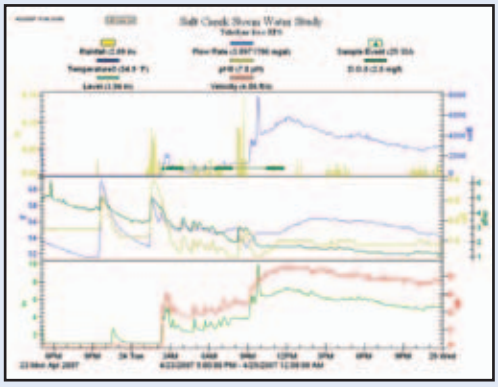
Water Quality Monitoring

- Stormwater
- Surface Water
- Reservoirs
- Recreation Water
- Total Maximum Daily Load (TMDL)
- Watershed Monitoring

Communications and Data Handling

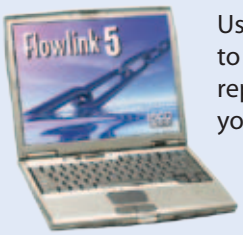
Today's communication, parameter measurement, and software technologies bring many advances and efficiencies to water and wastewater sampling. Contact your Isco representative for more information on:

- Data communications – RS-232, 4-20 mA, SCADA, Modbus, cellular wireless, spread-spectrum radio, and alarm notifications
- Parameter measurement — level, pH, temperature, turbidity, conductivity, and more — for sample triggering and data logging
- Software — automate your data analysis and reports



Special Product Applications

Teledyne Isco's Special Product Applications (SPA) team customizes automated sampling equipment to meet the unique needs of our customers around the world. Specialized communications, pressurized sampling, and extended lift heights are only a few of the many solutions we develop. Contact us with your challenging applications.



Use Flowlink® software to collect, analyze, and report all of the data from your monitoring program.

Teledyne Isco Sampler Suitability Guide

Isco Recommends	5800  Refrigerated	6712FR  Refrigerated	GLS  Portable	3700  Portable	6712  Portable	Glacier®  Portable Refrigerated	Avalanche®  Portable Refrigerated
Wastewater Treatment	X	X*					
Collection Systems			X	X	X*	X	X*
Water Quality Monitoring					X*		X*

* Add flow or parameter measurement capability

701
pH/Temperature

730
Bubbler Flow

780
4-20 mA Analog Input

720
Submerged Probe Flow

750
Area Velocity Flow

AQ700 Series
Multi-Parameter Sondes

Options and Accessories Selection Guide (continued)

Suction Line

Vinyl Suction Line	Black Tygon® Suction Line	PTFE-lined Suction Line
If using plastic bottles, select vinyl suction line. Vinyl suction line should be replaced as necessary.	Algae-resistant suction line can be used for general purpose sampling. (Not EPA approved.)	If using glass bottles, select PTFE-lined suction line. This chemically inert line can be cleaned and reused often.

Strainers

		
Stainless Steel and Polypropylene For most sampling applications using plastic bottles with vinyl suction lines.	**Stainless Steel** For use with glass bottles and PTFE-lined suction lines — when sampling for metals is not a requirement.	**CPVC** Usually selected when sampling corrosive liquids.
		
PTFE-coated Stainless Steel The choice when other strainer materials are not compatible.	**Low Flow Stainless Steel** For depths as low as two inches (5 cm).	**Ultra-low Flow Stainless Steel** For depths as low as one inch (2.5 cm) — requires ¼-inch tubing.

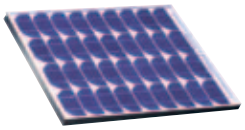
Bottles, suction lines, and strainers contact the sample liquid. Always select wetted materials that are compatible with the sample analysis.

Options and Accessories Selection Guide

Teledyne Isco offers many options and accessories which allow you to configure the sampler for your specific application.

Portable Sampler Power

When AC power is present, use Isco power packs to convert AC power to 12 volts DC for the portable sampler. When AC power is not present at the site, select a battery.

		
Standard AC Power Packs Available for 120 and 240 VAC power	**Battery-backed AC Power Packs** For uninterruptible operation in critical applications	**Nickel Cadmium Batteries** 4 amp/hour power for short-term sampling with easy recharging
		
Lead-acid Batteries 6.5 and 45 amp/hour battery for short- and long-term sampling	**Solar Panels** Extend your remote sampling applications by keeping batteries charged for the next event	**Charging Stations** Designed for optimum charging and maximum discharge/recharge cycles

Bottles

When selecting bottles for a sampler, consider the bottle material and configuration. To choose either plastic or glass bottle material, refer to the Code of Federal Regulations 40 CFR 136.3 Table II. This table specifies acceptable containers based on tests to be performed on the collected sample liquid.

Governing directives may also specify bottle configurations. Typical bottle configurations include:

		
1 Composite Bottle Compliance monitoring for wastewater discharge monitoring	**4 Sequential Bottles** Compliance monitoring for stormwater run-off permits	**24 Sequential Bottles** Process control and enforcement monitoring

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ISO 9001