



# Sampler Selection Guide



4700



6712FR



GLS



3700



6712




Glacier®



Avalanche®

# Isco Sampler Su

Isco Recommends ▶	4700	6712FR	GL
			
	Refrigerated	Refrigerated	Porta
Wastewater Treatment Plant		*	
Collection Systems			
Water Quality Monitoring			

## Advanced Automated Sampler Products From Teledyne Isco

With more than four decades of industry leadership, we continue to advance automated water and wastewater sampler technology by developing and producing durable and innovative instruments and software.

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](http://www.isco.com/as).



### Wastewater Treatment Plants

- Municipal Wastewater Treatment
- Industrial Pretreatment



### Collectio

- Combin
- Sanitary
- Industri
- Enforce

# Compatibility Guide

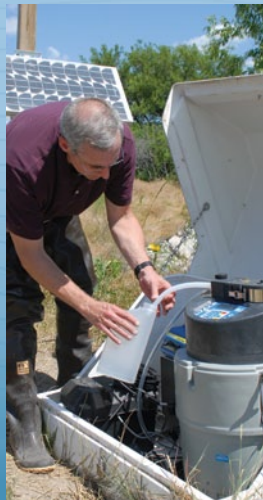
Model	3700	6712	Glacier®	Avalanche®
Image				
Category	Portable	Portable	Portable Refrigerated	Portable Refrigerated
Flow Measurement		*		*
Parameter Measurement		*		*

**\* Add flow or parameter measurement capability** to the sampler with an optional 700 series plug-in module. Use the module data to trigger sample collection and for data analysis.



## Monitoring Systems

- Sanitary Sewer Overflows (CSOs)
- Stormwater Sewer Overflows (SSOs)
- Industrial Pretreatment Monitoring
- Effluent Monitoring



## Water Quality Monitoring





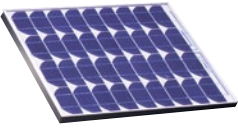

- Stormwater
- Surface Water
- Resource Water
- Recreational Water
- Total Maximum Daily Load (TMDL)
- Watershed and River Monitoring

# 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.

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

## 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:


		
<p><b>1 Composite Bottle</b> Compliance monitoring for NPDES wastewater discharge monitoring</p>	<p><b>4 Sequential Bottles</b> Compliance monitoring for NPDES stormwater run-off permits</p>	<p><b>24 Sequential Bottles</b> Process control and enforcement monitoring</p>

# Options and Accessories Selection Guide (continued)

## Suction Line

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

## Strainers

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

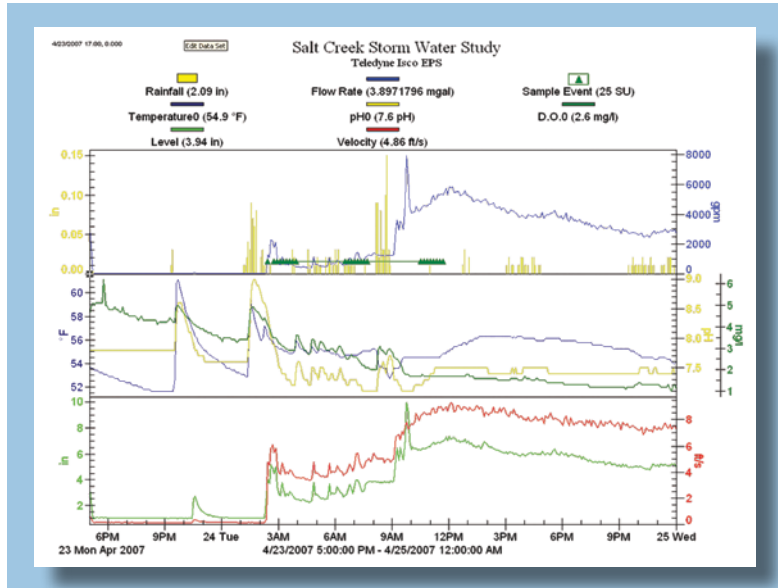
**Bottles, suction lines, and strainers contact the sample liquid. Always select wetted materials that are compatible with the sample analysis.**



# 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



**Use Flowlink® 5.1 software to collect, analyze, and report all of the data from your monitoring program.**

## 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 they develop. Contact us with your challenging applications.

Take a look at Isco's environmental equipment at work —  
[www.isco.com/isco-at-work](http://www.isco.com/isco-at-work)



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