

Isco 6700 Full-size Portable Sampler

Isco's 6700 Portable Sampler is recognized as the industry standard, providing the most comprehensive and durable performance available. The 6700 uses Isco's advanced 6700 Series Controller, a device that allows you to select from a variety of programming modes, assuring the most suitable routine for your application. Programming is fast and simple, with on-line help just a key stroke away.

The environmentally-sealed 6700 controller delivers maximum accuracy and easily handles all of your sampling applications, including:

- wastewater effluent
- stormwater monitoring
- CSO monitoring
- permit compliance
- pretreatment compliance

In the Standard Program Mode, the controller walks you through the sampling sequence step-by-step, allowing you to choose all parameters specific to your application. Selecting the Enhanced Programming Mode lets you enter more complex programs.

An optional telephone modem allows programming changes and data collection to be performed remotely, from a touch-tone phone.

Bottle options are available for practically any sequential or composite application.



Versatile and Convenient

With eleven bottle choices, Isco's 6700 Sampler lets you quickly adapt for simple or intricate sampling routines. Up to 30 pounds (13.5 kg) of ice fits in the insulated base, preserving samples for extended periods, even in extreme conditions. A convenient drain plug aids removal of water from melted ice.

Tough and Reliable

The 6700 Portable Sampler features a vacuum-formed ABS plastic shell to withstand exposure and abuse. Its tapered design and trim 20-inch (50.8 cm) diameter result in easy manhole installation and removal. Large, comfortable handles make transporting safe and convenient—even when wearing gloves.

Isco's 6700 Portable Sampler carries a NEMA 4X, 6 (IP67) corrosion-proof rating for submersible, watertight, dust-tight, and corrosion-resistant service.

Superior capability, rugged construction, and unmatched reliability make the 6700 the ideal choice for portable sampling in just about any application.

All 6700 Series Samplers share the following features:

Advanced Delivery System

The 6700's peristaltic pump delivers samples at the EPA-recommended velocity of 2 ft/sec., even at head heights of 26 feet. At head heights of 3 feet, line velocity is 3 ft/sec. No other automatic sampler achieves this level of performance!

Our patented* pump revolution counter tells you when tubing should be replaced. Changing tubing is a snap; there are no pump covers, collars or tools to slow you down. An exclusive safety interlock removes power from the pump when it's opened.

Convenient Data Retrieval and Reporting

Every 6700 Sampler is also a powerful data logger. Sampling, flow, rainfall, and other water quality data can be stored in its large memory (2 mB standard, 4 mB optional). At your convenience, the data can be retrieved using a laptop computer, or an Isco 581 RTD, or with the optional built-in phone modem.

Step-by-Step Programming

This feature walks you through the sampling sequence and allows you to choose all parameters specific to your application, such as:

- When to start
- What volume to collect
- How to distribute samples
- If samples are to be time- or flow-paced.

You can easily enter complex programs to suit your unique needs. Available routines include:

- Pause and resume for intermittent discharge flow monitoring
- Sampler pacing by time, non-uniform time, flow or external event
- Random interval sample collection

Expand your monitoring capabilities with these products and accessories

Contact Isco or your Isco Representative to receive specific literature and prices on the following items.

Telephone Modem

A factory-installed option that lets you set up and make programming changes, or collect data from your 6700 sampler from the comfort of your office. It's as simple as dialing your touch-tone phone.

581 RTD (Rapid Transfer Device)

Slim enough to fit in your shirt pocket, yet rugged enough to withstand submersion, the 581 RTD lets you quickly retrieve and transfer data without taking your laptop computer into the field.



The Isco 581 RTD provides a fast, simple way to collect and transport data from 6700 Series Samplers.

ProPak™ Disposable Sample Bags

In addition to a selection of glass and plastic bottles, Isco offers its patented ProPak bags. They eliminate the expense of washing and storing conventional bottles, while taking away worries about contamination from previous samples. The bags are available with a 1000 ml capacity, or in a 2-gallon version for composite sampling.

Flowlink Software

Isco's advanced Flowlink® 4 for Windows Data Management Software harnesses the power of Microsoft Windows® to set up instruments, retrieve, import, compare, and analyze data; generate advanced charts and graphs; create comprehensive reports, and more.

700 Series Modules

Our 700 Series Modules let you adapt your 6700 sampler for a variety of jobs. These compact modules are environmentally sealed and may be added to your 6700 system at any time.



701 – pH and Temperature Module

Combines accurate pH and temperature monitoring in one module. It will also activate your 6700 Sampler at a user-elected pH or temperature range.

710 – Ultrasonic Flow Module

Uses our field-proven ultrasonic level sensor that doesn't require submersion in the flow stream.

720 – Submerged Probe Flow Module

Provides accurate measurement at sites where wind, steam, foam, turbulence, or air temperature fluctuations exist. Suitable for small channels, it accurately senses pressure even when covered with silt and sand.

730 – Bubbler Flow Module

Get the dependability and accuracy of Isco bubbler flow meters in a miniaturized package. The 730 is unaffected by changing stream conditions, and level measurement remains accurate despite temperature fluctuations or exposure to harsh chemicals.

750 – Area Velocity Flow Module

Gives greater accuracy where weirs and flumes are not practical, and where submerged, full pipe, surcharged, and reverse flow conditions may occur. And, you don't have to estimate the slope and roughness of the channel.

780 – Smart 4-20 Module

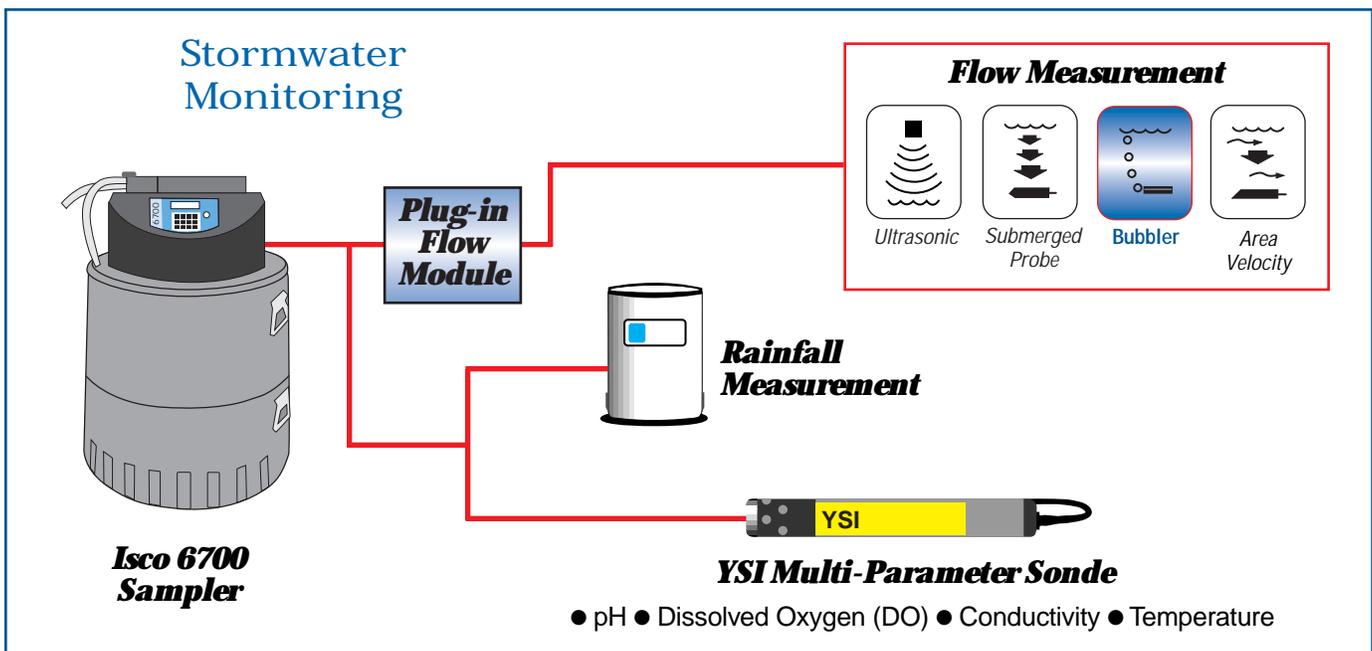
Add intelligence to a simple analog signal. Flow rates are displayed in actual volume units, not merely a percent of full scale. Any linear 4-20 mA input can be characterized by using the 780. The information can be stored and retrieved for later analysis.

System 21 Integrated Monitoring

System 21 combines sampling, flow, and rainfall measurement technology from Isco with multi-parameter sensing technology from YSI. System 21 can be configured with any Isco 6700 Series Sampler or 4100 Series Flowmeter.

The configuration shown here, using the 6700 with a 730 Bubbler Flow Module and YSI Sonde, is ideal for stormweather monitoring.

Request System 21 literature for additional details.



Isco 6700 Full-size Portable Sampler Specifications

Contact the factory or your Isco representative for additional specifications.

Sampler			Controller		
Height	27.0 in.	68.6 cm	Weight	13 lbs.	5.9 kg
Diameter	20 in.	50.7 cm	Dimensions	10.3 x 12.5 x 10 in.	26 x 31.7 x 25.4 cm
Weight (Dry/Less Battery)	32 lbs.	15 kg	Operational Temperature	32° to 120°F	0° to 49°C
Material	Fiberglass-reinforced plastic with UV-resistant gel coat		Enclosure Rating	NEMA 4X, 6	IP67
Power Requirements	12 VDC		Program Memory	Non-volatile ROM	
Pump			Flow Meter Signal Requirements	5 to 15 volt DC pulse or 25 millisecond isolated contact closure.	
Intake Purge	Adjustable air purge before and after each sample.		Number of Composite Samples to Shutoff	Up to 200 samples. (<i>Fail-safe float shutoff</i>)	
Tubing Life Indicator	Provides a warning to change pump tubing.		Real Time Clock Accuracy	1 minute per month, typical	
Intake Suction Tubing			Software		
Length	3 to 99 ft.	1 to 30 m	Sample Frequency Selection	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	
Material	Vinyl or Teflon® lined		Sampling Modes	Uniform time, non-uniform time, flow. (<i>Flow mode is controlled by external flow meter pulses.</i>)	
Inside Dimension	3/8 in. or 1/4 in.	1 cm or 0.6 cm	Programmable Sample Volumes	10 to 9,990 ml in 1 ml increments	
Pump Tubing Life	Typically 500,000 pump counts		Sample Retries	If no sample is detected, up to 3 attempts; user selectable	
Maximum Suction Lift	28 ft.	8.5 m	Rinse Cycles	Automatic rinsing of suction line up to 3 rinses for each sample collection	
Typical Repeatability	±5 ml or ±5% of the average volume in a set		Program Storage	3 sampling programs	
Typical Line Transport Velocity at head heights of:			Sampling Stop/Resume	Up to 24 real time/date sample stop/resume commands	
3 ft. (0.9 m)	3.0 ft./s	0.91 m/s	Controller Diagnostics	Tests for RAM, ROM, pump display, and distributor	
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.				

Ordering Information

Description	Part Number
6700 Portable Sampler, Full-size with Includes controller with 2 MB RAM, top cover, center section, base, distributor arm, instruction manual, pocket guide.	68-6700-063
6700 Portable Sampler, Full-size with memory expansion to 4 MB RAM. Includes controller, top cover, center section, base, distributor arm, instruction manual, pocket guide.	68-6700-070



Isco, Inc.
 4700 Superior St.
 Lincoln, NE 68504 USA
 Phone: (402) 464-0231
 USA & Canada: (800) 228-4373
 Fax: (402) 465-3022
 E-Mail: info@isco.com