

# 6712

## Full-size Portable Sampler

The 6700 Series Portable Samplers have set the industry standard, providing the most comprehensive and durable performance available. With the introduction of our 6712, Teledyne ISCO takes another step toward the ultimate by including SDI-12 interface capabilities.

### *Wide range of bottle configurations, plug-in flow and parameter monitoring*

This full-size portable lets you take full advantage of the advanced 6712 Controller, with its powerful pump, versatile programming, and optional plug-in modules for integrated flow measurement. Setup is fast and simple, with online help just a key stroke away.

The environmentally-sealed 6712 controller delivers maximum accuracy and easily handles all of your sampling applications.

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

Optional land-line and GSM and CDMA cellular telephone modems allow programming changes and data collection to be performed remotely, from a touch-tone phone. They also provide dial-out alarm.

With eleven bottle choices, the 6712 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. The 6712 with the "Jumbo Base" option holds bottles up to 5.5 gallon (21 liter).

The 6712 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.

Teledyne ISCO's 6712 Portable Sampler carries a NEMA 4X, 6 (IP67) enclosure rating. Superior capability, rugged construction, and unmatched reliability make the 6712 the ideal choice for portable sampling in just about any application.



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



### Applications:

- Wastewater effluent
- Stormwater monitoring
- CSO monitoring
- Permit compliance
- Pretreatment compliance

### Standard Features:

- SDI-12 interface provides "plug and play" connection with multi-parameter water-quality sondes and other compatible devices
- Choice of 11 different glass and plastic bottle configurations ranging from 24 x 1 liter to 1 x 5.5 gallon
- NEMA 4X, 6 (IP67) controller enclosure
- Rugged ABS plastic shell
- Foam-insulated base holds up to 30 pounds (13.5 kg) of ice to preserve samples even in extreme conditions
- Sample delivery at the EPA-recommended velocity of 2 ft/sec., even at head heights of 26 feet
- Pump revolution counter and patented liquid detection sensor ensure accurate sample volumes—and tells you when tubing should be replaced

## 6712 Full-size Portable Sampler

<b>Size (H x Dia):</b>	27 x 20 in (68.6 x 50.7 cm)
<b>Weight:</b>	Dry, less battery—32 lbs (15 kg)
<b>Bottle Configurations:</b>	24 – 1 Liter PP or 350 ml Glass 24 – 1 Liter ProPak Disposable Sample Bags 12 – 1 Liter PE or 950 ml Glass 8 – 2 Liter PE or 1.8 Liter Glass 4 – 3.8 Liter PE or Glass 1 – 9.5 Liter PE or Glass 1 – 5.5 gallon (21 Liter) PE or 5 gallon (19 Liter Glass, (with optional Jumbo Base)
<b>Power Requirements:</b>	12 VDC (Supplied by battery or AC power converter.)

## Pump

<b>Suction Tubing:</b>	
-Length:	3 to 99 ft (1 to 30 m)
-Material:	Vinyl or Teflon
-Inside Dimension:	3/8 in (1.0 cm)
<b>Pump Tubing Life:</b>	Typically 1,000,000 pump counts
<b>Maximum Lift:</b>	28 ft (8.5 m)
<b>Typical Repeatability:</b>	± 5 ml or ± 5 of the average volume in a set
<b>Typical Line velocity at Head height of:</b>	
	@ 3 ft (0.9 m) head height: 3.0 ft/s (0.91m/s)
	@ 10 ft (3.1 m) head height: 2.9 ft/s (0.87 m/s)
	@ 15 ft (4.6 m) head height: 2.7 ft/s (0.83 m/s)

<b>Liquid Presence Detector:</b>	Non-wetted, nonconductive sensor detects when liquid sample reaches the pump to automatically compensate for changes in head heights.
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## Controller

<b>Dimensions (HxWxD):</b>	10.3 x 12.5 x 10.0 in (26.1 x 31.7 x 25.4 cm)
<b>Weight (dry):</b>	13 lbs (5.9 kg)
<b>Operating Temperature:</b>	32 to 120 °F (0 to 49 °C)
<b>Enclosure Rating:</b>	NEMA 4X, 6 (IP67)
<b>Program Memory:</b>	Non-volatile ROM
<b>Flow Meter Signal Input:</b>	5 to 15 volt DC pulse or 25 millisecond isolated contact closure
<b>Number of Composite Samples:</b>	Programmable from 1 to 999 samples
<b>Real Time Clock Accuracy:</b>	1 minute per month, typical

## Software

<b>Sample Frequency:</b>	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
<b>Sampling Modes:</b>	Uniform time, non-uniform time, flow, event. (Flow mode is controlled by external flow meter pulses.)
<b>Programmable Sample Volumes:</b>	10 to 9,999 ml, in 1 ml increments
<b>Sample Retries:</b>	If no sample is detected, up to 3 attempts; user selectable
<b>Rinse Cycles:</b>	Automatic rinsing of suction line up to 3 rinses for each sample collection
<b>Program Storage:</b>	5 sampling programs
<b>Sampling Stop/Resume:</b>	Up to 24 real time/date sample stop/resume commands
<b>Controller Diagnostics:</b>	Tests for RAM, ROM, pump, display, and distributor

## Ordering Information

**6712 Portable Sampler, Full-size**  
Includes controller with 512kB RAM, top cover, center section, base, distributor arm, instruction manual, pocket guide ..... 68-6710-070

**6712 Portable Sampler, with Jumbo Base**  
As described above ..... 68-6710-082

*Note: Power source, bottle configuration, suction line, and strainer must be ordered separately. Many options and accessories are available for 6712 Samplers; see separate literature for 700 Series Modules and other components to expand your monitoring capabilities. Contact Teledyne ISCO, or your local representative for pricing and additional information.*



*The 6712 Controller is also an SDI-12 data logger, and has many optional capabilities. Please contact your Teledyne ISCO distributor for more information.*

## Teledyne ISCO

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*Teledyne ISCO is continually improving its products and reserves the right to change product specifications, replacement parts, schematics, and instructions without notice.*

