

# Isco GLS Compact Composite Sampler

## *It's a Great Little Sampler!*

The GLS Sampler is designed to collect composite samples for general purpose monitoring. It holds a 1- or 2.5-gallon sample bottle, or a 2-gallon disposable ProPak® bag.

## *One-button Programming*

With GLS's simplified controls, operation is quick and easy. Just select answers to six short questions, then store the results as the default program.

Once in the field, the operator simply calls up the default program with two keystrokes, presses the green "GO" button – and the desired sampling routine begins



*The GLS slips easily into the smallest manholes.*



*GLS is small and light, yet packed with features.*

## *Ultra compact*

Overall diameter is only 16.5 inches (41.9 cm), so the GLS fits easily into manholes as small as 18 inches (45.7 cm), and also easily drops into most offset manholes.

## *Easy to handle*

With a dry weight of less than 25 lbs (12 kg), GLS is the lightest sampler in the Isco line. A hinged handle makes one-handed carrying a breeze.

## *Accurate, repeatable sample delivery*

The patented\* LD90 Liquid Presence Detector and Isco pump revolution counting system delivers accurate, repeatable sample volumes time after time.

\* Patent # 5,125,801

## Specifications

Isco GLS Sampler	
<b>Height:</b>	26.5 in. (67.3 cm)
<b>Diameter:</b>	16.5 in. (41.9 cm)
<b>Weight: (dry)</b>	24.5 lbs (11.1 kg)
<b>Bottle configurations:</b>	1.0 or 2.5 gallon polypropylene or glass container
<b>Power Requirements</b>	12 volts DC. (Supplied by battery or AC power converter.)
Pump	
<b>Intake Purge:</b>	Purge before and after each sample.
<b>Tubing Life Indicator:</b>	Provides a message to change pump tubing.
<b>Intake Suction Tubing:</b>	
Length	3 to 99 feet (1 to 30 m)
Material	Vinyl or PTFE-lined vinyl
Inside dimension	3/8 in (9 mm) or 1/4 in (6 mm)
<b>Pump Tubing Life:</b>	Typically 2,000 samples
<b>Maximum Suction Lift:</b>	26 feet (7.9 m)
<b>Typical Repeatability</b>	±10 ml
<b>Typical Line velocity at Head height of:</b>	(with 3/8 inch line)
3 ft. (0.9 m)	2.5 ft./s (0.76 m/s)
10 ft. (3.1 m)	2.5 ft./s (0.76 m/s)
15 ft. (4.6 m)	1.9 ft./s (0.58 m/s)
<b>Liquid presence detector:</b>	Non-wetted, non-conductive sensor detects when liquid sample reaches the pump to automatically compensate for changes in head heights.

Controller	
<b>Weight:</b>	8 lbs. (3.6 kg)
<b>Size:</b>	10 x 12.5 x 10 inches (26 x 32 x 25 cm)
<b>Operational 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 requirements</b>	5 to 15 volt DC pulse or 25 millisecond isolated contact closure for flow-paced sampling.
<b>External trigger:</b>	Initiates sample collection from contact closure signal
<b>Number of samples to shutoff:</b>	Up to 500
<b>Real time clock accuracy:</b>	1 minute per month, typical, for real time clock
Software	
<b>Sample frequency selection:</b>	1 minute to 9,999 minutes, in 1 minute increments. 1 to 9,999 flow pulses
<b>Sampling modes:</b>	Time or flow, event. (Flow mode is controlled by external flow meter pulses.)
<b>Programmable sample volumes:</b>	10 to 9,990 ml in 1 ml increments
<b>Program storage:</b>	One program running, one stored
<b>Controller diagnostics:</b>	Tests for RAM, ROM, pump, and display

## Ordering Information

Suction line, strainer, or additional ProPak bags not included; order separately. Contact the factory or your Isco representative for complete ordering information.

Description	Part Number
<b>GLS Portable Composite Sampler with:</b>	
2.5 - gallon round polypropylene bottle	<b>68-2950-001</b>
2.5- gallon round glass bottle	<b>68-2950-002</b>
1 - gallon round polypropylene bottle	<b>68-2950-003</b>
2 - gallon capacity ProPak system (includes 100 disposable bags and holder)	<b>68-2950-005</b>



Simplified programming and controls make GLS operation quick and push-button easy.



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