

# Isco GLS

## Compact, Lightweight Sampler

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

The GLS Sampler is designed for general purpose or priority pollutant sampling. It collects composite samples, based on time or flow intervals, in 1- or 2.5 gallon polyethylene or 2.5 gallon glass bottles, or in 2-gallon disposable ProPak® bags.

### *Exclusive Quick-Touch operation*

With GLS's exclusive simplified programming, you can set up in less than a minute for:

- ◆ Uniform time intervals
- ◆ Flow-paced sampling with or without time delay.

When finished, store your sampling routine as the default program.

Then, in the field, the operator simply calls up the program with two keystrokes, presses the green "go" button – and the sampling routine begins.

Of course, you always have the option of setting another routine in the field – without losing your default program. If you can press a button, you can operate the GLS. It's that easy!



*GLS takes the strain out of lifting and carrying*



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

## Specifications

GLS Sampler		Controller	
<b>Height:</b>	26.5 in. (67.3 cm)	<b>Weight:</b>	8 lbs. (3.6 kg)
<b>Diameter:</b>	16.5 in. (41.9 cm)	<b>Size:</b>	10 x 12.5 x 10 inches (26 x 32 x 25 cm)
<b>Weight: (dry)</b>	24.5 lbs (11.1 kg)	<b>Operational temperature:</b>	32° to 120°F (0° to 49°C)
<b>Bottle configurations:</b>	1.0 or 2.5 gallon polyethylene, 2.5-gal glass, or 2-gallon ProPak system.r.		
<b>Power Requirements</b>	12 volts DC. (Supplied by battery or AC power converter.)	<b>Enclosure rating:</b>	NEMA 4X, 6 (IP67)
<b>Pump</b>		<b>Program memory:</b>	Non-volatile ROM
<b>Intake Purge:</b>	Purge before and after each sample.	<b>Flow meter signal requirements</b>	5 to 15 volt DC pulse or 25 millisecond isolated contact closure for flow-paced sampling.
<b>Tubing Life Indicator:</b>	Provides a message to change pump tubing.	<b>External trigger:</b>	Initiates sample collection and cooling from contact closure signal
<b>Intake Suction Tubing:</b> Length Material Inside dimension	3 to 99 feet (1 to 30 m) Vinyl or Teflon 0.37 in (0.95 cm) or 0.25 in (0.64 cm)	<b>Number of samples to shutoff:</b>	Up to 500 (500 maximum)
		<b>Real time clock accuracy</b>	1 minute per month, typical, for real time clock
<b>Pump Tubing Life:</b>	Typically 2,000 samples	<b>Software</b>	
<b>Maximum Suction Lift:</b>	26 feet (7.9 m)	<b>Sample frequency selection:</b>	1 minute to 9,999 minutes, in 1 minute increments. 1 to 9,999 flow pulses
<b>Typical Repeatability</b>	±10 ml	<b>Sampling modes:</b>	Time or flow, event. (Flow mode is controlled by external flow meter pulses.)
<b>Typical Line velocity at Head height of:</b> 3 ft. (0.9 m) 10 ft. (3.1 m) 15 ft. (4.6 m)	(with 3/8" line) 2.9 ft./s (0.88 m/s) 2.5 ft./s (0.76 m/s) 1.9 ft./s (0.58 m/s)	<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
<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.		

## 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 polyethylene bottle	68-2950-001
2.5- gallon round glass bottle	68-2950-002
1 - gallon round polyethylene bottle	68-2950-003
2 - gallon capacity ProPak system (includes 100 disposable bags and holder)	68-2950-005



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



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