

# GLS

## Compact Composite 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.

### GLS is small and light, yet packed with features!

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.

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.

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

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



The GLS slips easily into the smallest manholes.



### Applications:

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

### Standard Features:

- Overall diameter is only 16.5 inches (42 cm), so GLS fits easily into manholes as small as 18 inches (46 cm), and also easily drops into most offset manholes.
- Dry weight is less than 25 lbs (12 kg), the lightest sampler in the Teledyne ISCO line.
- Hinged handle makes one-handed carrying a breeze.
- The patented LD90 Liquid Presence Detector and pump revolution counting system deliver accurate, repeatable sample volumes time after time.

## GLS Compact Composite Sampler

<b>Height:</b>	26.5 in (67.3 cm)
<b>Diameter:</b>	16.5 in (41.9cm)
<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 Required:</b>	12 VDC (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>Suction Tubing:</b>	
<b>-Length:</b>	3 to 99 ft (1 to 30 m)
<b>-Material:</b>	Vinyl or PTEE-lined vinyl
<b>-Inside dimension:</b>	3/8 or 1/4 in (1.0 or 0.6 cm)
<b>Pump Tubing Life:</b>	Typically 2,000 samples
<b>Maximum suction lift:</b>	26 ft (7.9 m)
<b>Typical repeatability:</b>	± 10 ml
<b>Typical Line velocity at Head height of:</b>	
	@ 3 ft (0.9 m) head height: 2.5 ft/s (0.76 m/s)
	@ 10 ft (3.1 m) head height: 2.5 ft/s (0.76 m/s)
	@ 15 ft (4.6 m) head height: 1.9 ft/s (0.58 m/s)

## Liquid Presence Detector:

Non-wetted, nonconductive sensor detects when liquid sample reaches the pump to automatically compensate for changes in head heights.

## Controller

<b>Dimensions (HxWxD):</b>	10 x 12.5 x 10.0 in (25.4 x 31.7 x 25.4 cm)
<b>Weight (dry):</b>	8.0 lbs (3.6 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 Requirements:</b>	
	5 to 15 VDC pulse or 25 ms 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

## Software

### Sample Frequency Selection:

1 minute to 9,999 minutes, in 1 minute increments. 1 to 9,999 flow pulses

### Sampling Modes:

Time or flow, event. (Flow mode is controlled by external flow meter pulses.)

### Programmable Sample Volumes:

10 to 9,999 ml, in 1 ml increments

### Program Storage:

One program running, one stored

### Controller Diagnostics:

Tests for RAM, ROM, pump, and display

## Ordering Information

GLS Portable Composite Sampler with:

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

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



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