

FIELD Environmental Instruments

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ISCO

Compact Composite Sampler

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The GLS Sampler is designed for general purpose or priority pollutant sampling in municipal and industrial applications where a full-size sampler is too large. It collects composite samples, based on time or flow intervals, in 1- or 2.5-gallon glass or polyethylene bottles, or in 2-gallon disposable ProPak™ bags.

With GLS's simplified programming, setup takes less than a minute. In the field, the operator simply calls up the program with two keystrokes, presses the "go" button - and the sampling routine begins. You can also key in an alternate program in the field, without losing your stored program.

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 Isco line.
- Hinged handle makes one-handed carrying a breeze.
- The patented LD90 Liquid Presence Detector and Isco pump revolution counting system deliver accurate, repeatable sample volumes time after time.

SPECIFICATIONS

GLS Sampler

Size (Diam. x Height):	16.5 x 26.5 inches (42 x 67 cm)
Weight:	24.5 lbs (11.1 kg) (dry, less battery)
Sample bottles:	1.0 or 2.5 gallon polyethylene or glass container.
Power Requirements:	12 volts DC. (Supplied by battery or AC power converter.)

Pump

Intake purge:	Purge before and after each sample.
Tubing life indicator:	Provides a message to change pump tubing.
Intake suction tubing:	Length 3 to 99 ft. (1 to 30 m), Vinyl or Teflon® lined, ID 0.375 in. or 0.250 in
Pump tubing life:	2,000 samples
Typical repeatability:	±10 ml Maximum lift: 26 ft. (7.9 m)
Typical line velocity @ Head height:	2.9 ft./s @ 3 ft; 2.5 ft./s @ 10 ft; 1.9 ft./s @ 15 ft. (0.88 m/s @ 0.9 m; 0.76 m/s @ 3.1 m; 0.58 m/s @ 4.6 m)
Liquid presence detector:	Non-wetted, non-conductive sensor detects when liquid sample reaches the pump to automatically compensate for changes in head heights.
Operational Temperature:	32° to 120°F (0° to 49°C)

Controller

Enclosure:	NEMA 4X, 6 IP67
Program storage:	1 sampling program (in non-volatile ROM)
Flowmeter signal input:	5 to 15 volt DC pulse or 25 millisecond contact closure.
Number of composite samples:	Up to 500 maximum
Clock accuracy:	1 minute per month, typical, for Real Time Clock
Sampling modes:	Uniform time, flow. (Flow mode is controlled by external flow meter pulses.)
Sample frequency:	1 minute to 9,999 minutes, in 1 minute increments. 1 to 9,999 flow pulses.
Sample volumes:	Programmable 10 to 9,990 ml in 1 ml increments
Controller diagnostics:	Tests for RAM, ROM, pump, and display

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