3710 Portable Composite Sampler

The 3710 Sampler is ideal for general purpose or toxic pollutant composite sampling. It collects samples, based on time or flow intervals, into either a 2.5-gallon glass or poly bottle, or a 4-gallon polyethylene bottle. Up to 24 sampling stop-and-resume times can be preset for unattended sampling.

Ease of use in single-bottle sampling

Accurate, repeatable sample delivery

The patented LD90 Liquid Presence Detector and exclusive pump revolution counting system deliver accurate, repeatable sample volumes time after time.

The LD90's non-contacting design is not affected by conductivity, viscosity, temperature, or liquid composition. There are no internal tubing connections, so cleaning and tubing replacement are fast and easy.

User-friendly programming for all applications

Basic and extended programming modes provide you with the versatility for practically any sample collection scheme.

Superior sample preservation

With thick, foamed-in-place insulation and twin-wall design, your samples are protected in hot or cold temperatures. The 3710 provides maximum thermal preservation for a portable sampler.

Durable, reliable controller

Controller components are protected in a tough, environmentally sealed enclosure. The 3710 enclosure meets NEMA 4X and 6 (IP67) requirements for submersible, watertight, dust-tight, and corrosion resistant operation.



Applications:

- Waste water treatment plants
- Water plant sampling
- Stormwater runoff
- Industrial waste water

Standard Features:

- Automatic compensation for changes in head heights
- Automatic suction line rinsing to eliminate sample cross contamination.





3710 Portable Sampler

S7 IU PORTable	Sampler
Height:	25 in (64 cm)
Diameter:	19 in (50 cm)
Weight (dry):	37 lbs (16.8 kg)
Cooling Capacity (w/20 lbs of ice and 4-ç	gal bottles full of 65° F water): -After 24 hrs: 35 °F (20 °C) below ambient -After 48 hrs: 25 °F (14 °C) below ambient (standard thermal resistance factor of R-11)
Power Required:	12 VDC
Pump	
Intake Purge:	Adjustable air purge before and after each sample
Suction Tubing: -Allowable length:	3 to 99 ft (1 to 30 m)
-Material:	Vinyl or Teflon [®] lined
-Inside dimension:	3/8 or 1/4 in (1.0 or 0.6 cm)
-Maximum sample lift:	: 26 ft (7.9 m)
-Typical line transpo	rt velocity: @ 3 ft (0.9 m) head height: 2.9 ft/s (0.88 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)
-Typical repeatability:	± 10 ml
Pump Tubing:	Recommended life: 500,000 pump counts (Note: A tubing life warning indicator is provided)
Liquid Presence Detec	tor:
	Non-wetted, nonconductive sensor detects when liquid sample reaches the pump to automatically compensate for changes in head heights.
Controller	
Dimensions (HxWxD):	6.75 x 13.0 x 10.0 in (17.0 x 33.0 x 25.0 cm)
Weight (dry):	11.0 lbs (5.9 kg)
Operating Temperature:	32 ° to 120 °F (0 ° to 49 °C)
Enclosure Rating:	NEMA 4X, 6 (IP67)
Program Memory:	Non-volatile ROM
Flow Meter Signal Req	uirements: 5 to 15 Vdc pulse or 25 ms isolated

	s to 15 vac pulse of 25 ms isolated contact closure
Interface Port:	8-pin connector; data output at 2400 baud in ASCII RS-232 format with handshake

Real Time Clock Accuracy:

1 minute per month, typical

Software

Sample Frequency Sel	lection: 1 minute to 99 hours and 59 minutes, in one minute increments. Non-uniform times in minutes or clock times: 1 to 9,999 flow pulses.
Sampling Modes: -Sample Pacing:	Uniform time, non-uniform time, flow, flow paced/time switched, or STORM (time- and flow-paced sampling during sample collection).
	Note: Flow pacing is controlled by external flow pulses.
-Multiplexing:	Samples per bottle: 1 to 50 with 100 ml bottles 1 to 17 with 350 ml bottles
	Bottles per sample: 1 to 24, multiple bottle compositing
Programmable Sample	• Volumes: 10 to 9,999 ml, in 1 ml increments
Sample Retries:	If no sample is detected, up to 3 attempts (user selectable)
Rinse Cycles:	Automatic rinsing of suction line up to 3 rinses for each sample collection
Program Storage:	3 sampling programs
Programming Modes:	Basic, extended, and STORM
Sampling Stop/Resume	: Up to 24 real time/date stop/resume commands
Controller Diagnostics:	Tests for RAM, ROM, pump display, and distributor

Ordering Information

3710 Portable Sampler	.68-3710-015
1 2.5-gallon round polyethylene bottle	. 299-0013-04
1 2.5-gallon round glass bottle	. 68-2700-005
1 4-gallon round polyethylene bottle	. 299-0013-05

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

Teledyne ISCO

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