3700C

Portable Compact Sampler

The 3700C is ideal for installation where a full-size sampler won't fit. It will easily pass through 18-inch diameter or offset manholes without disassembly or awkward maneuvering.

Compact size with full-scale durability and features

Although smaller and lighter than our full size 3700 Sampler, the 3700C is designed and built with tough field use in mind. Its high-strength, corrosion-resistant material and NEMA 4X, 6 (IP67) controller assure you of long-term durability.

The 3700C controller has basic and extended programs for a wide variety of applications, including storm water monitoring. Sampling can be triggered based on time, flow, or pH. Built-in diagnostics, program storage, and program security are also included. And the controller is interchangeable on other 3700 Series samplers.

The patented LD90 Liquid Detector and pump revolution counter gives you accurate repeatable sample volumes every time:

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

The LD90's field proven, noncontacting design is not affected by conductivity, viscosity, temperature, or liquid composition.

The 3700C has three different bottle options, including 500 ml poly bottles for sequential sampling (shown at right, with optional carrier) and 2.5-gallon glass or poly bottles for composite use.



Our optional bottle carrier makes for convenient sequential sampling.



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

Standard Features:

- Quick-change bottle cartridge system
- Exclusive LD90 Liquid Presence
 Detector and pump revolution counting
 system ensure accurate, repeatable
 sample volumes
- Basic and extended programming modes for:
 - -Uniform time intervals
 - -Non-uniform time intervals
 - -Stormwater runoff sampling
 - -Multiple bottle compositing
 - -Split sampling
- Thick, foamed-in-place insulation and twin-wall design provide maximum performance in sample preservation.
- 3700 Controller is housed in a NEMA 4X and 6 (IP67) environmentally sealed enclosure, and is fully interchangeable between portable and refrigerated samplers





3700 Compact Portable Sampler

Height:	27.75 in (70.5 cm)
Diameter:	17.75 in (45 cm)
Weight (dry):	25 lbs (11.3 kg)

Cooling Capacity

(w/20 lbs of ice and 24 500ml 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 transport 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 Detector:

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

head heights.

Controller

Dimensions (HxWxD): 10 x 12.5 x 10.0 in (25.4 x 31.7 x 25.4 cm)

Weight (dry): 11.0 lbs (5.9 kg)

Operating Temperature: 32 $^{\circ}$ to 120 $^{\circ}$ F (0 $^{\circ}$ to 49 $^{\circ}$ C)

Enclosure Rating: NEMA 4X, 6 (IP67)

Program Memory: Non-volatile ROM

Flow Meter Signal Requirements:

5 to 15 VDC pulse or 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 Selection:

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

24 500-ml wedge shaped polypropylene bottles68-3700-070

100 2-gallon ProPak bags, 1 holder and cap 68-3700-072

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

Teledvne ISCO

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