

Parflux 78H Sediment Trap

Application:

The Parflux 78H time-series Sediment Trap collects the flux of settling particles in a wide, hexagonal topped funnel and stores samples in individual sealed bottles. Ocean and lake samples support biogeochemical studies including paleoproxy or radionuclide investigations, carbon cycle studies, and environmental or pollution monitoring.

Samples are pre-programmed or triggered adaptively from another computer or on-shore device. Collection date/time, battery voltage and temperature before and after each sample event are logged. The sampling schedule is set by individual start dates/times, fixed time intervals from a start date, or equal intervals between a start and end date.

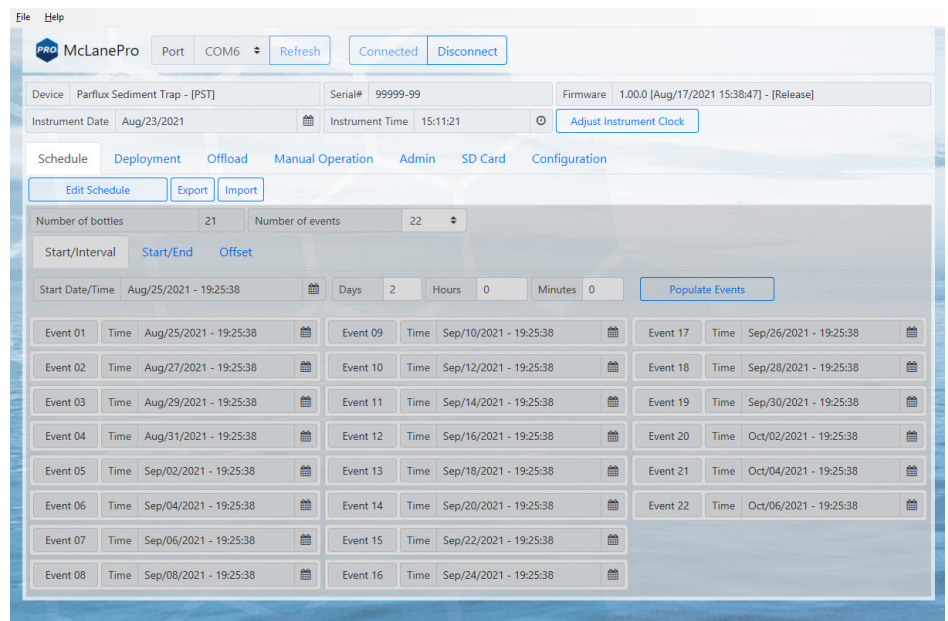
Features:

A 13 cup and a 21 cup version are available. The 21 cup model holds 250ml or 500ml sample bottles. The 13 cup model holds 500ml sample bottles.

McLanePro:

Sediment Traps use McLanePro, a graphical user interface built for McLane's Gen3 electronics. McLanePro eases the steps of event programming, data offload, and firmware updates.

- ▼ Number of samples: 21 with 250 ml or 500 ml bottles or 13 (wider bottle) with 500 ml bottles.
- ▼ Power: 14 commercially available, user replaceable "C" cell alkaline batteries.
- ▼ Depth-rated to 7,000 m (10,000 m option available).
- ▼ Options include external temperature and depth sensors, and external power connection.
- ▼ Optional wet sample particle divider (WSD-10) splits wet specimens into five or ten equal parts.
- ▼ Designed for in-line mooring applications, with optional bridles available.
- ▼ Titanium frame reduces weight and resists corrosion.
- ▼ For more information about this sampler, see the [Sediment Traps](http://mclanelabs.com) page at mclanelabs.com.



78H Sediment Trap Specifications

DIMENSIONS:

Diameter: 91 cm (35.8 in)

Height: 164 cm (64.5 in)

WEIGHT APPROX (NO BRIDLE):

In air, 500 ml bottles full: 72 kg (159 lbs)

In water, 500 ml bottles full: 25 kg (55 lb)

SAMPLE COLLECTION:

Number of samples: 21 or 13 (wider bottle)

Bottle volume: 250 or 500 ml (21 samples)

500 ml (13 samples, wider bottles)

Aperture area and diameter: 0.5 m², 80 cm

Baffle material: Titanium, Grade 2, 1.0 mm wall thickness

Cone material: Natural polyethylene internal coating

Baffle cells: Approx. 368, 2.5 cm diameter

Aspect ratio of cell (h/d): 2:5

Included cone angle: 41°

ROTARY ASSEMBLY:

Drive motor type: Electronic stepper motor

Drive train: Direct gear train

CONTROLLER:

Pressure housing: Titanium, 316 SS fasteners

Communications: USB, RS-232, RS-485 with optional added bulkhead connector

OPERATIONS:

Maximum depth: 7,000 m (10,000 m model is available)

Battery: 14 user replaceable "C" cell alkaline batteries

Maximum deployment time: 18 months

Operating temperature: -4°C to 35°C (in water nonfreezing)

Storage temperature: -20° to 45° C (in air)

FRAME:

Material: Titanium, Grade 2

Bridle eyes: 16 mm (5/8"), insulated

Fasteners: 316 SS isolated