

- Number of samples: 48 with 500 ml sample bags.
- Power: 24 commercially available, user replaceable "D" cell alkaline batteries.
- Patented multi-port valve isolates each sample.
- Optional programmable biofouling pre- and post- acid flushes clean intake.
- Sample collection with or without pre-filters.
- For more information about this sampler, see the <u>RAS</u> pages at mclanelabs.com.

*U.S. Patent Nos. 5,341,834 & 5,441,071 Japan Patent No. 248282

Remote Access Sampler - 500 ml

Application:

The Remote Access Sampler (RAS-500) is a deep ocean or coastal time-series water sampler that autonomously collects pure, unbiased specimens using a user-defined sample schedule. The RAS-500 collects ambient water and suspended material in individual clear or opaque sample bags for biological, dissolved major and minor nutrient, dissolved trace metal, or dissolved organic carbon analysis. Bags can be pre-filled with preservative for sample preservation.

Features:

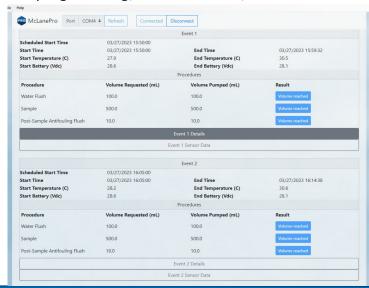
Water flows directly to sample bags without passing through the pump. Non-volatile memory stores critical deployment data. Options include In-line pre filters available on each sample, acid flush for intake cleaning between samples, and incubation selection for applying fixative after sample collection.

Sampling:

User-defined schedule controls sampling event time limits, data collection periods, flow and volume of collected samples. Programmable controls also define volume and frequency of optional acid flushes and rinsing cycles. Commands for adaptive, external control of sampling are also available.

McLanePro:

The RAS-500 uses McLanePro, a graphical user interface built for McLane's Gen3 electronics. McLanePro eases the steps of event programming, data offload, and firmware updates.



Remote Access Sampler - 500 ml Specifications

DIMENSIONS: Height: 128 cm (50 in)

Width: 73 cm (29 in)

Length: 73 cm (29 in)

WEIGHT (APPROX): In air (sample tubes empty): ~110 kg (240 lbs)

In air (sample tubes filled): ~148 kg (325 lbs)

In water: ~57 kg (125 lbs)

MULTI-PORT VALVE: Number of ports: 50 (48 samples)

Material: HYDEX plastic valve stators and Kynar

plastic rotor

SAMPLE COLLECTION: Size: Approximately 500 ml

Material: 2 mil Tedlar® (clear), 4 mil Mylar

laminated (opaque) or 4 mil Kynar (clear)

PUMP: Flowrate: 75 ml/min fixed rate (±10% error)

Type: Gear pump

Drive Housing: Pressure balanced oil filled

CONTROLLER: Pressure housing: Aluminum, 6061-T6 hardcoat anodized,

316 SS fasteners, 316 SS bulkhead

connectors, Zinc anodes

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

bulkhead connector.

OPERATIONS: Maximum depth: 5,500 m

Battery: 24 user replaceable "D" cell alkaline

batteries

Maximum deployment time: 18 months

Operating temperature: -2° to 35°C (nonfreezing)

FRAME: Material: 316 SS, electropolished, 316 SS isolated

hardware (titanium available)

Structure: In-line weldment, 5 ton tension rating