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YSI ProSample Automated Sampler

Portable Samplers



The ProSample series of fully automated portable samplers is an extension of YSI's process monitoring and control equipment offering for wastewater, surface water and industrial treatment markets. They assist with regulatory compliance and process optimization in various stages through these processes.

Lightweight and easy to use, the samplers come with a proprietary peristaltic pump for highly accurate sampling based on time, flow or weather event. Once an event occurs, or during normal operation, the log data is easily extracted from the sampler via a USB and can be taken to a PC for further evaluation.

The ProSample series provides a unique combination of user-friendly design and unmatched technology.

Applications:

Stormwater

Wastewater treatment (municipal and industrial)

Pre-sedimentation

Post-sedimentation

Industrial pre-treatment

- Robust PE, double-walled, insulated housing for temperature control
- Easy tube replacement for minimal downtime
- Spring-loaded roller bearings in peristaltic pump providing longer tubing life, up to 20% longer than competition
- Highly accurate sample volume using two captive sensors in the peristaltic pump for volume control
- User-friendly, simple programming and calibration from sampler or PC
- Long battery life - up to 550 samples per battery charge
- Data recovery via USB and does not require direct transfer to a laptop.
- Non-volatile data memory for up to 5 years, so you never have to worry about losing your data if power is lost
- "Mini" PM option has smaller footprint



Stainless steel filter basket to reduce debris in samples

ProSample Technical Specifications

Sampling Method	Peristaltic Pump: 20 - 10,000 mL (flow proportional)
Accuracy	Single sample volume accuracy on peristaltic pump is $\pm 5\%$ or ± 5 mL
Suction Height	Maximum 6.5 m (21.33 ft) at 1013h Pa
Pumping Speed	>0.5 m/s (1.64 ft/s) at suction height up to 5 m (16.4 ft) at 1013 Pa; pump capacity can be adjusted electronically
Calibration	Automatic (adjustable) or manual
Material (housing)	PE (polyethylene)
Material (tubing)	PVC, L = 5 m (16.4 ft), ID = 10 mm (0.39 in) maximum, hose length = 30 m (98.43 ft)
Dimensions (D x H)	P = 500 x 740 mm (19.8 x 29.1 in) PM = 400 x 650 mm (15.74 x 23.82 in)
Weight	P = 15 kg (33 lbs) PM = 9 kg (19.8 lbs)
Measuring Interval	Range A: 5 minutes (adjustable) or greater; Range B: 10 minutes or greater
Memory	Up to 3000 entries, non-volatile data memory for up to 5 years
Data log	Stores sampling and malfunction data, bottle changes, messages, external signals
Signal Inputs	Analog: (2) 4-20 mA Digital: (8) Flow, event, 1 input can be programmed independently
Operating Temperature	0 to 50°C (32 to 122°F)
Sample Temperature	0 to 40°C (32 to 104°F)
Power Supply	12 V / 7.2 Ah lead storage battery (maintenance free, leak proof) 115V or 230V operation by means of battery charger in buffer mode
Certifications, Standards	CE sampling according to ISO 5667-10, EN 16479
Programming	12 user-defined selectable programs
Keypad	Graphic display (128 x 64 pixels), back lit
Climate Control	Insulated sample compartment - insulation thickness of 20 mm (0.78 in)
Communications	Mini-USB, RS232, Connection via USB and PC (YSIConnect must be installed on PC)

ProSample Ordering Information

Item #2079000	ProSample P
Item #2078000	ProSample PM
Item #0901098	(24) 1 L bottles, PE
Item #0901111	(8) 2 L bottles, PE
Item #0901112	(4) 4 L bottles, PE
Item #0901025	Strainer, 2 mm (0.08 in)
Item #0030050	Strainer, 8 mm (0.31 in)
Item #0901103	Battery charger

* Additional accessories, such as tubing, available at YSI.com/ProSample

YSI

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