

PS-003

WALL MOUNTABLE / PORTABLE SAMPLER

The ultra light 'PS-003' sampler was designed especially for fitting into consoles or cabinets with other instruments such as flowmeters, recorders etc. but has found popularity as a portable for general or laboratory use.

Any PS-003 sampler can be fitted with an Integral Mains Power Supply (several voltages available)

VACUUM/PRESSURE SAMPLING

No peristaltic pump used here – the PS-003 sampler uses the only true 'no contact' method of sampling – the Vacuum/Pressure system, perfected and patented by SIRCO™, that ensures a truly representative sample. The high sampling speed thus obtained ensures no loss of suspended solids during sampling.

SPECIFICATION

Controller Functions

Controller	- Electronic unit in polycarbonate weatherproof enclosure with transparent lid fitted within the sampler cabinet
Status Indicator	- Three L.E.D.s indicating delay start, controller operational, and battery low
Delay Timer Range	- Eleven settings 2, 4, 8, 12, 16, 24, 32, 48, 64, 72, 128 hours and timer off position
Cycle Timer Range	- Eleven settings 3.75, 7.5, 15, 30 minutes, 1, 2, 4, 8, 12, 16, 24 hours and EX-T position
Flow Proportional	- Via volt-free contact closure (EX-T)
Pre-Sample Purge Timer	- Pre-set 32 seconds
Sample Intake Time	- self-adjusting 32 seconds maximum
Sample Sensing	- Conductivity Type
Post Sample Purge Timer	- 8 seconds fixed
Retry	- Three times
Manual Sample	- User initiated sample sequence for spot samples and system test purpose
Deposit Counter Range	- 12, 24, 36, 48, 60, 72, 84, 96, 108 samples and composite. Used to select the number of samples taken

Construction

Enclosure	- Wall mountable weatherproof polycarbonate cabinet with transparent door
Chassis	- Aluminium with white stove enamel finish
Metering Chamber	- Plexiglass
Metering Chamber Top	- Moulded nylon
Suction Tubing	- Reinforced black PVC 10mm ID x 16mm OD, 7.5 metres supplied
Electrode	- 316 Stainless Steel
Sample Container	- 5 litre composite
Pump	- Heavy-duty vacuum/pressure diaphragm pump
Weight	- 6 to 10 kgs depending upon equipment fit
Dimensions	- Sampler without composite container 300mm x 300mm x 180mm (height x width x depth of cabinet)



Electrical

Power Requirements	- 12 vdc 4 amp max. (10 mA average quiescent)
EX-T Input	- Volt free contact closure, ground to +8 volt
Electronic Compliance	- With relative European standards and directives for emission and immunity

Operational

Sample Volume	- Adjustable from 25 to 250 ml
Sample Speed	- > 60 ml per second with 6 metres lift
Sample Lift	- Up to 7.5 metres
Sample Volume Adjustment	- Single Sliding Metering Tube
Pre-Sampling Purge	- High pressure 14 psig
De-plugging purge	- Automatic 'on-call' whenever plugging occurs

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