

PVS 4100Portable Samplers

Easy-to-use, Accurate, Durable, Dependable

The PVS 4100 is SIRCO's most deluxe portable solution for sampling, built with the same, reliable, long-lasting vacuum technology as the stationary samplers. The vacuum system of sampling results in accurate and dependable results, even with high sediment content or rapid velocities at the sample source. Portable models feature either discrete or composite sampling and a programmable controller with 16-key intuitive touchpad.

A rugged design and precision in construction give these portable samplers the ability to be set up in one location over time, yet they are easily transportable. Over the years, we have worked at lightening the PVS 4100, until today where it weighs in at a mere 26 pounds!* Internal batteries can operate seven days or more, even longer with the addition of an external battery source, or one could simply plug them into a permanent power source.

The portable samplers are designed to fit a variety of different locational challenges, and can be hung with a suspension system built with a stainless steel harness.

The enclosure of the PVS 4100 is a molded medium-density linear polyethylene, designed to handle tough environmental challenges and weathering. The hub has an insulated ring and a cavity for crushed ice, giving more control over the temperature of the samples.

^{*} Weight does not include 15 Lbs. battery.

CODE	TYPE								CODE
С	COMPC	OSITE				(INCLUDES SAMPLE CONTAINER CODE "B")			С
D	DISCRETE			(INCLUDES SAMPLE CONTAINER CODE "D")			D		
	CODE MICROPROCESSOR								
	M MULTI-FUNCTION INPUT C				CONTRO	ONTROLLER (STANDARD)			M
	Х	· · · · ·	L SOFTV	—					Χ
	CODE METERING CHAMBER ASSEMBLY - (ACRYLIC STANDARD)								
	1 3/8 ID. X 500CC.							1	
	2 5/8 ID. X 500CC. (C				(COMPC	COMPOSITE ONLY)			2
	9 SPECIAL						9		
			DE ALLOTTED FOR FUTURE DEVELOPMENTS						
S STANDA				···-			S		
					SAMPLE CONTAINER - (NALGENE STANDARD)			В	
B D				8 LITRE (2 U.S. GALLONS) STANDARD WITH COMPOSITE 24 X 500CC. (1 U.S. PINT) STANDARD WITH DISCRETE			D		
l v				SPECIAL STANDARD WITH DISCRETE			Х		
					CODE				
					1	STANDARD		1	
					9	SPECIAL		9	
D :: 1						CODE			
Partial						ı	115 VAC ON	ILY	ı
nomograph.						J	115 VAC / 12	2 VDC WITH INTEGRAL	J
For a complete							BATTERY C	HARGER & CABLE	
listing contact						K	EXTERNAL	12 VDC SUPPLY CABLE	K
						L	S.S. SUSPE	NSION HARNESS	L
Southwell.						N		HOSE STRAINER	N
						Χ	SPECIAL		Χ



Features

- Optional harness unit for suspending samplers (e.g. in sewage systems).
- Optional tilt wheel assembly for easy transport.
- Optional side handles for easy lifting (increases diameter).
- Controller housed in an environmentally sealed enclosure for corrosion protection, and all information is easily controlled and viewable on a 2x16 character backlit LCD.
- Rapid transport velocities of samples (over 4.5 ft/sec for sample lifts of up to 20 ft and over 5 ft/sec for horizontal draws at 75 feet), meaning more accurate samples, even of solids over high lifts.
- Composite or discrete options, taking samples into anywhere from one to twenty-four containers.
- Three-year warranty.

SIRCO PVS 4100 PORTABLE SAMPLER

Sampler		Vacuum System			
Height	31.875 inches 809 mm	Pinch Valve	Fixed – normally open		
Body Case Diameter	16.85 inches 428 mm	Purge Cycle	Adjustable – 5 to 99 seconds		
Weight (without battery)	26 lbs 11.8 kg	Suction cycle	Variable – adjusts automatically to		
Enclosure	Molded medium density linear	-	double the input value of the purge time		
	polyethylene, 3 piece construction and		setting or until liquid contacts level		
	all SS fittings.		electrode in metering chamber		
Supply Voltage	Integral Battery: 12Vdc 17AH (15 lbs)	Sample Volume	Adjustable, 50cc to 500cc		
	External receptacle: 12Vdc	Sample Transport Velocity	Vertical: Minimum of 4.5 ft/s at 20ft of lift		
	* 120 Vac/12 Vdc with integral battery		(3/8" ID intake)		
	charger and power cable		Vertical: Minimum of 3 ft/s at 16ft of lift		
	* AC only option available		(5/8" ID intake)		
Cooling System	Insulated container wall		Horizontal: Minimum of 5 ft/sec at 75 ft		
• .	Cavity space for ice		5.5 ft/sec at 3ft of lift		
Controller			Exceeds EPA minimum speed of 3 ft/sec		
	2x16 character backlit LCD	Metering Chamber	Acrylic 500cc, 100cc calibration		
Display Touchpad	16-key, calculator-type with multi-level]	* Pyrex 500cc, 100cc calibration		
тоиспрац		Metering Chamber Cover	Nylon		
Start Delay	menus Disabled; Time/Day; Pulse Count;		* Reinforced Teflon top		
Start Delay	4-20mA (0-100 pulses/minute); External	Volume Control Tube	316 stainless steel		
	,	Metering Chamber Level	316 stainless steel		
Commis Initiation	Contact; Level Control Disabled; Interval Time; Pulse Count;	Electrode			
Sample Initiation		Intake Hose	Nylon reinforced PVC		
	4-20mA (0 to 100 pulses/minute);		(3/8"ID by 25' c/w sinker)		
Dua awawa Tura	External Contact Composite; Multi-Composite;		* Nylon reinforced PVC		
Program Type			(5/8"ID by 25' c/w sinker)		
Clock	Consecutive; Daily Cycle; Timed Step		* Teflon lined PVC		
	Real Time clock & operating system Manual sample; Manual purge; Manual		(1/2"ID by 25' c/w SS sinker)		
Direct Function Keys		Discharge Hose	Latex, 3/8" ID		
Curitahaa	bottle advance; Restart Controller "on/off" (SPST toggle)		* Latex, 5/8" ID		
Switches Available displays	Real time clock; Process timing; Process		* Silicone, 3/8" ID		
Available displays	•		* Silicone, 5/8" ID		
	totals; Pulse counting; Event response;	Sample Containers	* 2.3 US gallon (9 litre) high density		
	Multi-level descriptions; Flashing	(composite only)	polyethylene		
A (C P L	prompts; Diagnostics		* 2.5 US gallon (10 litre) glass		
Automatic displays	Container Full; Fault; Power Interrupt	Sample Container	24 x 500cc polyethylene		
	(program resumed); Alternating Time	(discrete only)	. , ,		
Dealum Dauran Carras	Stamp; Cycle(s) abandoned	Options			
Backup Power Source	Internal Lithium battery to maintain		19\/da 17AU /15 lba\		
	program settings & info in the case of	Extra Battery	12Vdc 17AH (15 lbs)		
	power failure	Tilt Wheel Assembly	For easy wheeled transport		
* Optional features are m	arked with an asterix	Optional Side Handles For easier carrying (increases diameter)			
optional reactives are in	and the discin	Other custom options available upon request Optional extended warranty (up to 5 years)			
		Uptional extended warrant	y (up to 5 years)		

Specifications

Effluent/liquid sampling unit is to be of the vacuum-type mode of operation, for the collection of liquids at user-specified criteria. Portable unit will have an enclosure of medium-density linear polyethylene or equivalent. Vacuum system is to include a pressure purge before sampling in order to keep system free from contaminants. Control pad will be able to initiate sampling based on user criteria, including but not limited to 4-20mA, interval time, external contact, and manual override. Sampler to be manufactured in Canada or the United States only, and have a three (3) year warranty. Sampling unit to be a PVS 4100 Sirco Sampler manufactured by Southwell, or approved equivalent.



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