

BVS 4300 Outdoor Stationary Samplers

"Durable, Easy-to-use, Accurate, Dependable"

The BVS 4300 Outdoor Stationary Sampler is designed to handle extreme conditions in the toughest of environments and take samples reliably for years and years with little to no maintenance cost. Simply put, they are built tough.

The enclosure is made with durable, heavy-gauge steel or stainless steel, coated with heat-cured polyester-based powder paint for added corrosion resistance.

The sampler uses Southwell's patented vacuum sampling method of collection, the most accurate and reliable system for collecting liquid samples to date.

With a multitude of options, samplers can be made to handle the toughest of applications, including a strong pyrex metering chamber, a teflon-lined hose, a teflon reinforced cover, or a stainless steel sinker strainer.

Also available in 3/8" or 5/8" line size, for more difficult sampling situations.

CODE	TYPE							CODE	
С		POSITE						С	
D	DISCRETE						D		
	CODE MICROPROCESSOR								
	M MULTI-FUNCTION INPUT CONTROLLER (STANDARD) X SPECIAL SOFTWARE						M X		
CODE METERING CHAMBER ASSEMBLY - (ACRYLIC STANDARD)									
1 3/8 ID. X 500CC. (STANDAR							1		
2 5/8 ID. X 500CC. (C							2		
	3 3/8 ID. X 1000CC.					,			
	4 5/8 ID. X 1000CC. (C			00CC. (	COMP	COMPOSITE ONLY)			
	9 SPECIAL					9			
CODE REFRIGERATOR									
	N NON - REF					N R			
					ATED: COMPOSITE — (SMALL)				
					RATED: DISCRETE & DUAL STATION — (LARGE) (FRIDGE CIRCUIT READY)				
CODE SAMP							W		
						E (STANDARD)		Α	
			8 LIT	ITRE (2 U.S. GALLONS)		В			
С			20 LITRE (5 U.S. GALLONS)			С			
		D	24 X 500CC (1 U.S. PINT)			D			
			SPEC			Х			
				ENCLOSURE					
1			1 3	NEMA 3 (STANDARD) NEMA 3 - INSULATED		1 3			
			5						
9			9	SPECIAL		9			
							OPTIONS		
Partial nomograph.						B	PRESSURE/VACUUM GAUGE HEATER C/W THERMOSTAT	B C	
For a complete						D	OVERFLOW PROTECTION PROBES	D	
·						F	COMMON SAMPLER FAULT OUTPUT	F	
listing contact						N	S.S. SINKER STRAINER	N	
Southwell.						S	INTEGRAL BATTERY C/W CHARGER	S	
Codti Woll.						l v w	EXTERNAL VALVE CONTROL OUTPUT DUAL STATION	V W	
						X	SPECIAL	X	
NOTE	NOTES: SPECIAL FEATURE ("X" OR "9")								
NOTES. OF ESTAL FEATURE ( A ON 9 )									



## Features

- · Easy-to-use controller constructed to last dependably for decades through most conditions.
- Locking door & bolted down instrument panel, for added security and safety.
- Pull-out tray, useful for maintenance technicians who can easily inspect the modular components of the sampler system.
- · Optional cabinet insulation and a thermostaticallycontrolled forced-air heater, for colder weather climates.
- Dual-system options: two metering chambers and sample containers with either single or dual controllers.
- · All parts & upgrades have been designed to retro-fit previous models for easy upgrading of old samplers!
- Built to last, in our CSA-certified shop.
- Two-year warranty.

## Southwell BVS 4300 Outdoor Stationary Sampler

Sampler		Vacuum System	
Height	63 inches 1.6 m	Pinch Valve	Fixed – normally open
Width	26 inches 0.66 m	Purge Cycle	Adjustable – 1 to 99 seconds
Depth	26 inches 0.66 m	Suction cycle	Variable – adjusts automatically to
Weight: refrigerated	310 lbs 141 kg	_	double the input value of the purge
Weight: non-refrigerated	240 lbs 109 kg		time setting or until liquid contacts
Enclosure	Nema 3 weatherproof 14 gauge steel		level electrode in metering chamber
	enclosure with heat cured polyester-	Sample Volume	Adjustable, 50cc to 500cc
	based powder paint for corrosion		* Adjustable, 500cc to 1000cc
	resistance & lockable door	Sample Transport Velocity	Minimum of 3 ft/s at 20 ft of lift
	* Stainless Steel		(3/8" ID intake)
	* Insulation with thermostatically		Minimum of 3 ft/s at 16 ft of lift
	controlled forced-air heater		(5/8" ID intake)
Supply Voltage	Sampling system:	Metering Chamber	Acrylic 500cc, 100cc calibration
,	115 Vac / 60Hz or 12 Vdc		* Acrylic 1000cc, 100cc calibration
	Refrigeration and heating units: 115		* Pyrex 500cc, 100cc calibration
	Vac / 60Hz		* Pyrex 1000cc, 100cc calibration
Controller		Metering Chamber Cover	Nylon
	2:46 sharester health LCD	, i	* Teflon reinforced top
Display	2x16 character backlit LCD	Volume Control Tube	316 stainless steel
Touchpad	16-key, calculator-type with multi-level	Metering Chamber Level	316 stainless steel
Ctart Dalari	menus  Disabled: Time/Day: Pulse County 4	Electrode	
Start Delay	Disabled; Time/Day; Pulse Count; 4-	Intake Hose	Nylon reinforced PVC
	20mA (0-100 pulses/minute); External		(3/8"ID by 25' c/w sinker)
Commis Initiation	Contact; Level Control		* Nylon reinforced PVC
Sample Initiation	Disabled; Interval Time; Pulse Count;		(5/8"ID by 25' c/w sinker)
	4-20mA (0 to 100 pulses/minute);		* Teflon lined PVC
D T	External Contact		(1/2"ID by 25' c/w SS sinker)
Program Type	Composite; Multi-Composite;	Discharge Hose	Latex, 3/8" ID
01 1	Consecutive; Daily Cycle; Timed Step		* Latex, 5/8" ID
Clock	Real Time clock & operating system		* Silicone, 3/8" ID
Direct Function Keys	Manual sample; Manual purge;		* Silicone, 5/8" ID
Alama Outrost	Manual bottle advance; Restart	Sample Containers	* 2 US gallon (8 litre) high density
Alarm Outputs	Cycle abandoned [pulse output];	(composite only)	polyethylene
(Independent)	Sample Fault; Container Full	,	* 5 US gallon (20 litre) high density
Status Outputs	Sample taken [pulse output]		polyethylene
Switches	Run/off (SPST toggle)		* 2.5 US gallon (10 litre) glass
	On/off (5 amp lighted breaker)	Sample Containers	24 x 500cc polyethylene
	* Refrigerator on/off	(discrete only)	* 3 x 1 litre glass
Aveilable die die de	* Heater on/off Real time clock; Process timing;		* 4 x 1 litre glass
Available displays			* 6 x 1 litre glass
	Process controls; Pulse counting;		* 8 x 1 litre glass
	Event response; Multi-level desc.;		* 12 x 1/2 litre glass
A ((!!! - !!	Flashing prompts; Diagnostics	Refrigerator	* 5 cu.ft., adjustable to maintain 4° C
Automatic displays	Container full; Fault; Interrupt;		* 7 cu.ft. (discrete)
	Alternating Time Stamp; Cycle(s)	* Optional features are market	· · · · · · · · · · · · · · · · · · ·
	abandoned		ou with all astelly

## **Specifications**

Effluent/liquid sampling unit is to be of the vacuum-type mode of operation, for the collection of liquids at user-specified criteria. Unit will have a protective enclosure of steel or stainless construction with a heat-cured polyester-based powder paint. 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, in a CSA-certified shop, and have a two (2) year warranty. Sampling unit to be a BVS 4300 Southwell (Sirco) Sampler manufactured by Southwell, or approved equivalent.



Tel: 604-980-3688
Fax: 604-980-6578
Toll Free: 877-984-7788
sales@southwellcontrols.com
www.southwellsamplers.com

Canada Office 857 West 3rd St. North Vancouver, BC V7P 1E3 USA Office

Blaine, WA 98231-1892

PO Box 1892