

SP4 A Fixed site self-emptying water sampler in stainless steel housing with thermostatic control for automatic sample extraction according to the vacuum principle. Mains operation 230V/50Hz.

Housing	Double-walled stainless steel (material 1.4301) with 40 mm insulation. Consisting of upper part (control unit) and lower part (sample compartment), each with lockable door. Upper door with plexiglass window. Protective top which can be opened for connection and maintenance works.	
Thermostatic control	Self-contained, automatic cooling and heating of the sample compartment to +4°C independent of the programmable controller, with protection against overheating and automatic defrost cycle.	
Control	Microprocessor control with 4 MB Flashrom, 32KB RAM (battery-buffered), 32 KB EEprom, 3 digital inputs and 8 digital outputs, 1 configurable analogue input, battery-buffered real-time clock. Operation by means of a waterproof foil keyboard (with keys 0-9, ESC, ENT, cursor) and 4 x 20 character back lit LC-display.	
Language	Multi-language, selectable	
Programming	Time display:	Hours, minutes, seconds weekday, day, month, year
	Sampling:	- Time-related - Flow-related analogue (0/4-20mA) or digital Option: flow-proportional - Event-related or in combination
	Interval:	1 min to 15 h
	Bottle filling:	1 min to 99 h 59 min
	Programs:	6 user programs (for free editing)
	Data memory:	Logging of sample extraction and messages. Optional storage of external data
Interface	Optional:	RS 232 (internal on CPU board in plug-in version, not led to the outside).
Modem	Optional:	GSM, AT or ISDN modem to change the programming, for a status fetch, a data fetch or a message transmission as SMS.
PC software	Optional:	PC software (Win98, NT, XP) for parameterization, status control, data fetch and direct storage as excel file/text file/PDF file.
Status messages	Optional:	Sampling, distributor, program active and collective malfunction message by means of potential-free make contacts. Can be extended to up to 10 outputs. In addition, the desired messages (configurable by means of the software) can be transmitted via modem as SMS or text.
Overvoltage protection	All inputs are protected against overvoltage (lightning protection).	

Dosing system	<p>The following variants are available</p> <p>-VACUUM SYSTEM</p> <p>The sample volume is adjusted manually by means of an adjustable tube. Metering vessel made of glass Duran 50, adjustable volume 20 - 350 ml (optional 20 - 500 ml) with motor-driven pinch valve^{*)}.</p> <p>-VARIABLE VACUUM SYSTEM (flow-proportional sampling)</p> <p>The dosing volume is <u>automatically adapted</u> to an <u>analogue</u> flow signal (0/4-20 mA).</p> <p>Metering vessel made of glass Duran 50, adjustable volume 25 - 450 ml with motor-driven pinch valve^{*)}.</p> <p>-FLOW-THROUGH SYSTEM</p> <p>For flow rates from 3 – 20 l/min. Metering vessel made of glass Duran50, adjustable volume 20 – 250 ml with 2 motor-driven pinch valves^{*)}</p>
Pneumatic unit	Diaphragm pump 12 V/ 4 A, vacuum 7,0 m, pressure 1 bar, motor-driven valve system ^{*)} for change-over pressure/vacuum/aeration, average suction speed with suction hose ID 12 mm and 5 m suction height > 60 cm/sec (according to ISO5667).
Sample bottles	12 x 1,6 l glass Duran 50 24 x 2,0 l glass Duran 50
Rinsing/discharge	Rinsing head with rinsing water connection 3/4", max. 2 bar, discharge by means of a hose DN25. Bottles are emptied, rinsed and filled on the same bottle position.
Sample collection	Swivelling bottle discharge tube which can be turned to the front to drain off the sample into a transport container.
Overall dimensions	1.290 (1890*) x 690 x 645 mm or 1400 (2175*) x 800 x 850 mm (hxwxd) *) with opened top
Weight	Approx. 115 kg / 125 kg
Power supply	230 V / 50 Hz, fuse protection 16 A
Optoelectronic coupler input	Analogue, threshold voltage 3,3 V
Power requirement	Approx. 350 VA
Ambient temp.	-20°C to + 40°C
Standards	All devices meet standard ISO 5667

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