

SP4 P Fixed site water sampler in stainless steel housing with thermostatic control or as version without housing (wall-mounted unit) for automatic sample extraction from pressurised lines up to 5 bar. Mains operation 230V/50Hz.

1. Version with 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.
2. Wall mounted unit (no housing)	Stainless steel tube rack with PVC mounting plate
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.
Dosing system	Metering vessel made of PVC, volume 50 – 500 ml

Pneumatic unit	Pneumatic unit with electrovalves and pressure regulator/maintenance unit. To operate the pneumatic unit, compressed air is needed. The pressure of the compressed air supplied has to exceed the pressure in the pressurised line (sludge line) by at least 1 bar. It is also possible to use a compressor with pressure chamber.
Distributors	The distributors can be retrofitted easily without any tools.
Sample bottles	1 x 25 l PE 1 x 50 l PP 2 x 10 l PE (in combination with 12-step distributor) 4 x 6,5 l PE (in combination with 12-step distributor) 4 x 10 l PE 4 x 14 l PE 12 x 2,9 l PE 12 x 2,0 l PE
Overall dimensions	a) Wall mounted unit (no housing) 900 x 700 x 250 mm (hxwx d) b) Version with housing 1470 (2070*) x 690 x 645 mm (hxwx d) * with opened top
Weight	Sampler without housing: approx. 30 kg Sampler with housing: approx. 100 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.	Sampler without housing: 0°C to + 40°C Sampler with housing: -20°C to + 40°C
Standards	All devices meet standard ISO 5667
Make:	MAXX
Type:	SP4 P (sludge sampler)
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