

SP5 C

Fixed site sampler in stainless steel housing with thermostatic control for automatic sample extraction according to the vacuum or pump principle. Mains operation 230V/50Hz.

Type	Fixed site sampler
Housing	Double-walled stainless steel (material 1.4301/ SS304) / PS / PC (GF10) with 50 mm insulation. Housing separated in sample compartment and control compartment, Protective top made of Styrosun which can be opened for connection and maintenance works. Upper Door without window but with option for Status LED.
Thermostatic control	Self-contained, controlled cooling / heating with 4 settings, no-frost. independent of the programmable controller, Temperature in sample compartment: 5°C +/- 3° (adjustable from 0,0-9,9°C)
Control	Microprocessor control, Sleep-Mode (<5mA), power supply 8-16 V foil keyboard (with keys 0-9, ESC, ENT, cursor), graphical display (128*64 Pixel), back lit
Data logger	3000 entries, non-volatile data memory; storage of sampling and malfunction data like sample extractions, bottle changes, messages, external signals. optional with WEB-board 100 MB (2 Year ring memory-FIFO at 1 min interval)
Programming	12 freely programmable user programs, with function to link programs.
Program start options	- IMMEDIATELY; - DATE/TIME - WEEKDAY/TIME; - BY AN EXTERNAL SIGNAL
Program End/Stop options	End of sampling program - AFTER 1 RUN - AFTER X RUNS - CONTINUOUS OPERATION - DATE/TIME
Pause mode	Interruption of program run at any time
Overfilling protection	Adjustable from 1–999 samples/bottle
Interval setting	1 min. to 99 h 59 min. in steps of 1 minute
Pulse setting	1 to 9999 pulses/sample
Manual sample extraction	Possible at any time without interrupting the current program run
Program protection	Up to 5 years after voltage loss
Interface	Mini-USB
Communication (option)	Optional: Modbus, Profibus DP Connection or LAN / GPRS optional: 1. Connection via USB and PC <ul style="list-style-type: none"> • maxxwareConnect® has to be installed on the PC • Connection to the sampler via USB/MiniUSB cable • remote control of the sampler • visualization of downloaded data • download and saving of data as PDF, CSV or XLSX Format • print-out of data directly as PDF Format • backup of all preprogramed programs from the sampler • setting and saving of programs in offline mode. Upload in online mode • Read out, changing, saving or upload of all sampler programs (1-12) • recovery of saved programs.

	2. LAN Modul RJ45 + GPRS Router <ul style="list-style-type: none"> • ARM9-SoC • 32MB RAM • 100 MB Data Memory ((2 Year ring memory-FIFO at 1 min interval) • Linux OS • TCP/IP (RJ45) • recording of all CPU Data (like data of sampling cycle, bottle report, error log, temperature etc.) • visualization via Web interface • Data-export (PDF, CSV, XLS) • E-Mail error messaging additionally <ul style="list-style-type: none"> + Fully integrated Router (industrial standard) + UMTS / GPRS + SIM card holder + E-Mail error messaging + antenna
Languages	Multi-language, selectable
Signal inputs	<ul style="list-style-type: none"> • 2 x analogue: 0/4-20 mA, • 8 x digital (flow, event, 1 inputs can be programmed freely) option: expandable with 4x digital, 3 inputs can be programmed freely, and 8x analog 0- 20 mA or 0-10 V, pulse length 60ms, switching level 7-24 V, max. working resistance 500 Ohm (Analog-signals)
Signal outputs / status messages	<ul style="list-style-type: none"> • 8 digital outputs, 1x of them as collective malfunction message (Relay optional) option: expandable with 8 digital, 5 are freely programmable (in total 6 messages)
Sampling method	-Vacuum system 15-320 ml (dosing vessel in PVC or optional in glass) With patented valve system and pinch valve
volume accuracy	Vacuum system: < 2,5 % or +/- 3 ml
Suction height	Max. 7,5 m (at 1013hPa), optional 8,5 m or 15 m (with Power Booster)
Pumping speed	>0,5 m/s (average velocity) at suction height up to 7,5 m (at 1013h Pa);
Suction hose	PVC, L=5 m, ID=12 mm. Max. hose length 30 m
Sampling modes	<ul style="list-style-type: none"> < Time-related, <ul style="list-style-type: none"> • Constant Time, Constant Volume (CT/CV) < Flow-dependent, <ul style="list-style-type: none"> • Variable Time, Constant Volume (VT/CV) < Event-related and < Manual sample extraction.
Bottle variants	Plastic 1 x 25 L, 1 x 50 L, 2 x 10 L, 4 x 14 L, 12 x 3 L, 24 x 1,0 L Glass 12 x 2,0 L 24 x 1,0 L
Overall dimensions	Standard (h x w x d): 1.125 (1.695*) x 625 x 648 mm *) with opened top

Weight	Approx. 82 kg with composite container, higher weight depending bottle variants and/or glass bottles
Power supply	230 V / 115 V / AC
Power requirement	Approx. 350VA (with cooling)
Ambient temperature	-20 – 43°C
Sample temperature	0 – 40°C
Standards	CE Sampling according to ISO 5667-10, EN16479
Wetted materials	PC, PVC, Silicone, PS, PE, EPDM (optional: metering vessel glass Duran50, sinker weight SS304)

Make: **MAXX**

Type: **SP5 C**

Manufacturer: MAXX Mess- und Probenahmetechnik GmbH,
Hechinger Straße 41, D-72414 Rangendingen
Phone +49(0)7471-98481 0, Fax +49(0)7471-98481 44
e-mail: info@maxx-gmbh.com
internet: www.maxx-gmbh.com

Subject to technical changes. *) Patent No. DE 19726550A1, DE 19726549A1