

**MAXX SP5 DK  
SAMPLER FOR PRESSURE LINES up to 25 bar**

**Fixed site water sampler without housing (wall-mounted unit) or as version in stainless steel housing with thermostatic control for automatic sample extraction from pressurized lines up to 25 bar. Mains operation 230V/50Hz.**

Type	Fixed site sampler for sample medium with high solids content (sludge sampler) and for sampling from pressurised lines
Housing	<p><b>Option 1:</b> Version without housing (PVC / stainless steel)</p> <p><b>Option 2:</b> 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. (materials: 1.4301/SS304; 1.4571/ SS316Ti; SS304 EPOXY-coated.; SS316 Ti EPOXY-coated)</p> <p><b>Note:</b> In the cabinet version, the dosing system is located outside of the cabinet. In order to keep the dead volume low, the dosing system must be mounted as close as possible to the pressure line</p>
Thermostatic control	In combination with stainless steel housing: self-contained, controlled cooling/heating with 4 settings, no-frost. Temperature in sample compartment: 4°C (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	End of sampling program after one program run; continuous operation
Overfilling protection	Adjustable from 1–999 samples/bottle
Interval setting	1 min. to 99 h59 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, RS 232 optional: Ethernet RJ45, SDI-12
Communication (option)	Optional: <b>Modbus, Profibus DP Connection</b> <b>or</b> <b>LAN / WLAN / GPRS-UMTS</b>

	<p>optional:</p> <p><b>1. Connection via USB and PC</b></p> <ul style="list-style-type: none"> <li>• maxxwareConnect® <b>has to be</b> installed on the PC</li> <li>• Connection to the sampler via USB/MiniUSB cable</li> <li>• remote control of the sampler</li> <li>• visualization of downloaded data</li> <li>• download and saving of data as PDF, CSV or XLSX Format</li> <li>• print-out of data directly as PDF Format</li> <li>• backup of all preprogramed programs from the sampler</li> <li>• setting and saving of programs in offline mode. Upload in online mode</li> <li>• Read out, changing, saving or upload of all sampler programs (1-12)</li> <li>• recovery of saved programs.</li> </ul> <p><b>2. LAN Modul RJ45</b> via TCP/IP and IE-Browser</p> <ul style="list-style-type: none"> <li>• ARM9-SoC</li> <li>• 32MB RAM</li> <li>• 100 MB Data Memory ((2 Year ring memory-FIFO at 1 min interval)</li> <li>• Linux OS</li> <li>• TCP/IP (RJ45)</li> <li>• recording of all CPU Data (like data of sampling cycle, bottle report, error log, temperature etc.)</li> <li>• visualization via Web interface</li> <li>• Data-export (PDF, CSV, XLS)</li> <li>• E-Mail error messaging</li> </ul> <p><u>or alternatively</u></p> <p><b>3. LAN Modul RJ45 + GPRS/UMTS Router</b></p> <ul style="list-style-type: none"> <li>• ARM9-SoC</li> <li>• 32MB RAM</li> <li>• 100 MB Data Memory ((2 Year ring memory-FIFO at 1 min interval)</li> <li>• Linux OS</li> <li>• TCP/IP (RJ45)</li> <li>• recording of all CPU Data (like data of sampling cycle, bottle report, error log, temperature etc.)</li> <li>• visualization via Web interface</li> <li>• Data-export (PDF, CSV, XLS)</li> <li>• E-Mail error messaging</li> </ul> <p>additionally</p> <ul style="list-style-type: none"> <li>+ Fully integrated Router (industrial standard)</li> <li>+ UMTS / GPRS</li> <li>+ SIM card holder</li> <li>+ E-Mail error messaging</li> <li>+ antenna</li> </ul>
Languages	Multilanguage, selectable
Signal inputs	<ul style="list-style-type: none"> <li>• 2 x analogue: 0/4-20 mA,</li> <li>• 8 x digital (flow, event, 1 inputs can be programmed freely)</li> </ul> <p>option: expandable with 4x digital, 3 inputs can be programmed freely, and 8x analogue 0- 20 mA or 0-10 V, Impulslength 60ms, switching level 7-24 V, max. working resistance 500 Ohm, max. length of signalcable 30 m</p>
Signal outputs / status messages	<ul style="list-style-type: none"> <li>• 8 digital outputs,</li> </ul> <p>1x of them as collective malfunction message (Relay optional)</p> <p>option: expandable with 8 digital, 5 are freely programmable (in total 6 messages)</p>
Sampling method	2x 2/2 Double ball valve system with dosing tube mounted between the two valves. Standard volume 200 ml, other volumes available upon request
Single sample volume accuracy	< 2,8 %

Suction height	--
Pumping speed	--
Suction hose	Inlet: inside thread 1 1/4" Outlet: hose nozzle DN40 other dimensions possible at small volumes
Sampling modes	Time-related, flow-dependent, event-related, manual sample extraction
Bottle variants	1 x 25 L PE  In stainless steel housing: 1 x 25 LPE 4 x 14 L PE/4 x 6,3 L PE 12 x 2,9 L PE
Overall dimensions	<b>Wall-mounted version:</b> control unit (hxwxd) 350 x 450 x 170 mm dosing unit (hxwxd) 570 x 120 x 200 mm  <b>Version in stainless steel housing (hxwxd)</b> 1.290 (1.890*) x 690 x 645 mm *) with opened top
Weight	Approx. 15 kg (wall-mounted version); Min. 100 kg (version with stainless steel housing)
Power supply	230 V / 115 V /AC
Power requirement	Approx. 50VA; approx. 350VA (with cooling)
Ambient temperature	0 – 45° C
Sample temperature	0 – 40° C
Standards	CE Sampling according to ISO 5667-10, EN16479
Wetted materials	PVC, steel (1.4408, 1.4401), PTFE

Make: MAXX

Type: SP5 DK (Sampler for pressure lines)

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](mailto:info@maxx-gmbh.com)  
**Internet:** [www.maxx-gmbh.com](http://www.maxx-gmbh.com)

Subject to technical changes. \*) Patent No. DE 19726550A1, DE 19726549A1  
and VAR unit DE 10008623.3