MAXX®

Mess- und Probenahmetechnik GmbH

Stationary Samplers

SP5 A

Model SP5 B

Technical data at a glance

Housing:	PE with 50 mm insulation/PS/PC (GF10)
Control:	Microprocessor control, foil keypad, back lit display
Thermostatic control:	Self-contained, controlled cooling (ice-free), heating, 4° C, +/- 3° (adjustable)
Programming:	12 freely programmable user programs, user-friendly software
Interface:	Mini-USB, optional: Ethernet RJ45, SDI-12 Optional: Modbus, Profibus DP
Communication:	Optional in combination with PC software or LAN/WLAN /GPRS (2 year ring memory FIFO at 1 min interval)
Languages:	Multi-language, selectable
Signal inputs:	2 x analogue: 0/4-20 mA, working resistance 500 Ohm 8 x digital (flow, event, 1 inputs can be programmed freely) Impuls length 50 ms Option: expandable with 4 x digital, 3 inputs can be programmed freely,
Signal outputs:	8 digital outputs, 1x of them as collective malfunction message Option: expandable with 8 digital, 5 are freely programmable
Sampling method:	Vacuum 15-320 ml in PC. Optional: 20-350 ml in glass (optional: glass 20-500 ml)
Sampling modes:	Time (CT, CV), Flow (VT, CV) or (CT, VV), variable Flow only peristaltic pump or option for vacuum-system; Event, and Manual sampling (Flow modes are controlled by an external flowmeter signal)
Suction height:	Vacuum 7,5 m (at 1000 hPa), option: 8,5 m or up to 15 m (Power Booster) Peristaltic pump 8,5 m (at 1000 hPa)
Bottle variants:	Plastic: 1 x 25 l; 4 x 14 l; 4 x 10 l;12 x 3,0 l; 24 x 1 l Glass: 12 x 2 l; 24 x 1l
Overall dimensions:	(hxwxd) 1100 (1640 with opened top) x 760 x 775 mm
Weight:	approx. 75 kg with composite container, higher weight when using several bottles and/or glass bottles
Ambient temperature:	-20° to +45° C
Sample temperature:	0° to +40° C
Standards:	CE, sampling according to ISO 5667-10, EN 16479

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SP5 B – Compact device in plastic housing, especially suitable for corrosive environment

Your advantages:

> Available with vacuum system and peristaltic pump
> Intelligent sensor replacement function »MAXX mode« (Peristaltic pump)
> Unrivaled measuring device for volume determination (Peristaltic pump)
> Minimal effort für calibration
> Highly accurate sample volume
> Clear operating structure and simple programming
> LAN/W-LAN/GPRS communication (Option)
> Easy cleaning
> Modern and ergonomic design
> Big variant of bottle configuration
> Well insulated

Dosing system peristaltic pump

Model SP5 S

Technical data at a glance

Housing:	Stainless steel with 40 mm insulation (Material: 1.4301/SS304)/PS/C (GF 10). Option: (Option: 1.4571/SS316), Option: EPOXY coated)
Control:	Microprocessor control, foil keypad, back lit display
Thermostatic control:	Self-contained, controlled cooling (ice-free), heating, 4° C, +/- 3 ° (adjustable)
Programming:	12 freely programmable user programs, user-friendly software
Interface:	Mini-USB, optional: Ethernet RJ45, SDI-12 Optional: Modbus, Profibus DP
Communication:	optional in combination with PC software or LAN/WLAN/GPRS (2 year ring memory FIFO at 1 min interval)
Languages:	Multi-language, selectable
Signal inputs:	2 x analogue: 0/4-20 mA, working resistance 500 Ohm 8 x digital (flow, event, 1 inputs can be programmed freely) Impuls length 50 ms Option: expandable with 4 x digital, 3 inputs can be programmed freely, and 8 x analogue 0–20 mA or 0–10 V
Signal outputs:	8 digital outputs, 1x of them as collective malfunction message Option: expandable with 8 digital, 5 are freely programmable
Sampling method:	Vacuum 15-320 ml in PC. Optional: 20-350 ml in glass (Optional: glass 20-500 ml) Optional: VAR Vacuum-System 5-350 ml (CT.VV) Optional: Bypass-System 20-250 ml / Option: Peristaltic pump 10-10.000 ml
Sampling modes:	Time (CT, CV), Flow (VT, CV) or (CT, VV), (variable Flow only peristaltic pump or option for vacuum-system); Event and Manual sampling (Flow modes are controlled by an external flowmeter signal)
Suction height:	Vacuum 7,5 m (at 1000 hPa), option: 8,5 m or up to 15m (Power Booster) Peristaltic pump 8,5 m (at 1000 hPa)
Bottle variants:	Plastic: 1 x 25 l; 1 x 50 l; 2 x 10 l; 4 x 6 l; 4 x 10 l; 4 x 14 l; 12 x 3,0 l; 24 x 1 l Glass: 12 x 2 l; 24 x 1l
Overall dimensions:	(hxwxd) 1290 (1.890 with opened top) x 690 x 645 mm as measuring station: 1470 (2070 with opened top) x 690 x 645 mm
Weight:	approx. 100 kg with composite container, higher weight when using several bottles and/or glass bottles
Ambient temperature:	-20° to +43° C
Sample temperature:	0° to +40° C
Standards:	CE, sampling according to ISO 5667-10, EN 16479

Innovation made in Germany

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Sampler in stainless steel housing. also available as measuring station

Your advantages:

> Available with vacuum system and peristaltic pump
> Intelligent sensor replacement function »MAXX mode« (Peristaltic pump)
> Unrivaled measuring device for volume determination (Peristaltic pump)
> Minimal effort für calibration
> Highly accurate sample volume
> Clear operating structure and simple programming
> LAN/W-LAN/GPRS communication (Option)
> Easy cleaning
> Modern and ergonomic design
> Big variant of bottle configuration and dosing systems

Fold-out plate for easy access and maintenance works

Vacuum dosing system with plastic vessel

Model SP5 A

Selfemptying, with rinsing

Technical data at a glance

Housing:	Stainless steel with 40 mm insulation (Material: 1.4301/SS304)/PS/C (GF 10) (Option: 1.4571/SS316: Option: EPOXY coated)
Control:	Microprocessor control, foil keypad, back lit display
Thermostatic control:	Self-contained, controlled cooling (ice-free), heating, 4° C (adjustable)
Programming:	12 freely programmable user programs, user-friendly software
Interface:	Mini-USB; optional: Ethernet RJ45, SDI-12; optional: Modbus, Profibus DP
Communication:	Optional in combination with PC software or LAN/WLAN /GPRS (2 year ring memory FIFO at 1 min interval)
Languages:	Multi-language, selectable
Signal inputs:	2 x analogue: 0/4-20 mA, working resistance 500 Ohm 8 x digital (flow, event, 1 inputs can be programmed freely) Impuls length 50 ms Option: expandable with 4 x digital, 3 inputs can be programmed freely,
Signal outputs:	8 digital outputs, 1x of them as collective malfunction message Option: expandable with 8 digital, 5 are freely programmable
Sampling method:	Vacuum 15-320 ml in PC. Optional 20-350 ml in glass (Optional: Glass 20-500 ml) Optional: VAR Vacuum-System 5-350 ml (CT.VV) Optional: Bypass-System 20-250 ml / Option: Peristaltic pump 10-10.000 ml
Suction height:	Vacuum 7,5 m (at 1000 hPa), option: 8,5 m or up to 15 m (Power Booster) Peristaltic pump 8,5 m (at 1000 hPa)
Sampling modes:	Time (CT, CV), Flow (VT, CV) or (CT, VV), (variable Flow only peristaltic pump or option for vacuum-system); Event and Manual sampling (Flow modes are controlled by an external flowmeter signal)
Bottle variants:	2 x 10 l PE/4 x 5 l PE/12 x 1,6 l Glas Duran 50/24 x 2 l Glas Duran 50
Overall dimensions:	(hxwxd) 1.290 (1.930 with opened top) x 690 x 645 mm 24 x 2 l: 1400 (2.175*) x 800 x 850 mm
Weight:	approx. 115 kg with 2x10 l, higher weight when using several bottles and/or glass bottles
Ambient temperature:	-20° to +43° C
Sample temperature:	0° to +40° C
Standards:	CE, sampling according to ISO 5667-10, EN 16479

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Ideal for automatic and continuous operation without the need of personnel. Also available with measuring rack

Your advantages:

> Available with peristaltic pump, vacuum oder Bypass system
> Unrivaled measuring device for volume determination (Peristaltic pump)
> Minimal effort für calibration
> Highly accurate sample volume
> Clear operating structure and simple programming
> LAN/W-LAN/GPRS communication (Option)
> Easy cleaning
> Modern and ergonomic design
> Big variant of bottle configuration and dosing systems
> Automatic bottle emptying
> Automatic bottle rinsing

Easy access for connection and maintenance works

Distributor with glass bottles, placed on a telescopic drawer

Model SP Zone 1

Technical data at a glance

Housing:	Stainless steel with 40 mm insulation, (Material: 1.4301/SS304)/PS/C (GF 10) (Option: 1.4571/SS316; Option: EPOXY coated)
Control:	Microprocessor control, foil keypad, back lit display
Thermostatic control:	Self-contained, controlled cooling (ice-free), heating, 4° C, +/- 3° (adjustable)
Programming:	12 freely programmable user programs, user-friendly software
Interface:	Mini-USB (pay attention to ATEX certification)
Communication:	on request (pay attention to ATEX certification)
Languages:	Multi-language, selectable
Signal inputs:	2 x analogue: 0/4-20 mA, (galvanically separated) Working restistance 500 Ohm 8 x digital (flow, event, 1 inputs can be programmed freely) Impuls length 50 ms
Signal outputs:	8 digital outputs, 1x of them as collective malfunction message Option: expandable with 8 digital, 5 are freely programmable
Sampling method:	Vacuum-System 20–350 ml (in glass) Optional: Vacuum-System 20–500 ml in glass
Suction height:	max. 6 m (at 1000 hPa),
Sampling modes:	Time (CT, CV), Flow (VT, CV) Event and Manual sampling
Bottle variants:	Plastic: 1 x 25 l; 1 x 50 l; 2 x 10 l; 4 x 6 l; 4 x 10 l; 4 x 14 l; 12 x 3,0 l Glass: 12 x 2 l
Overall dimensions:	(HxWxD) 1400 (2175*) x 800 x 850 mm * with opened top
Weight:	approx. 120 kg with composite container, higher weight when using several bottles and/or glass bottles
Ambient temperature:	-20° to +43° C
Sample temperature:	0° to +40° C
Standards:	CE, sampling according to ISO 5667-10, EN 16479

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Ex-Zone 1 ,
Protection class II 2G Ex IIB T3 Gb X
or
II 2G Ex IIB T4 Gb X without heating

Your advantages:

> Proven MAXX technology for hazardous areas
> Optionally with DK-system for pressure lines
> Highly accurate sample volume
> Clear operating structure and simple programming
> Easy cleaning
> Modern and ergonomic design

Pneumatic dosing system with capacitive Ex-sensor

Controlhousing in accordance with ATEX

Model SP Zone 2

Technical data at a glance

Housing:	Stainless steel with 40 mm insulation (Material: 1.4301/SS304)/PS/C (GF 10) (Option: 1.4571/SS316: Option: EPOXY coated)
Control:	Microprocessor control, foil keypad, back lit display
Thermostatic control:	Self-contained, controlled cooling (ice-free), heating, 4° C, +/- 3° (adjustable)
Programming:	12 freely programmable user programs, user-friendly software
Interface:	Mini-USB, (pay attention to ATEX certification)
Communication:	on request (pay attention to ATEX certification)
Languages:	Multi-language, selectable
Signal inputs:	2 x analogue: 0/4–20 mA, (galvanically separated) Working restistance 500 Ohm 8 x digital (flow, event, 1 inputs can be programmed freely) Impuls length 50 ms
Signal outputs:	8 digital outputs, 1x of them as collective malfunction message option: expandable with 8 digital, 5 are freely programmable
Sampling method:	Vacuum-System PC 15–320 ml Optional: 20–350 ml in glass
Suction height:	max. 6 m (at 1000 hPa),
Sampling modes:	Time (CT, CV), Flow (VT, CV) Event and Manual sampling
Bottle variants:	Plastic: 1 x 25 l; 1 x 50 l; 2 x 10 l; 4 x 6 l; 4 x 10 l; 4 x 14 l; 12 x 3,0 l Glass: 12 x 2 l
Overall dimensions:	(HxWxD) 1470 (2245*) x 690 x 645 mm * with opened top
Weight:	approx. 100 kg with composite container, higher weight when using several bottles and/or glass bottles
Ambient temperature:	-20° to +43° C
Sample temperature:	0° to +40° C
Standards:	CE, sampling according to ISO 5667-10, EN 16479

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Sampler in stainless steel housing for hazardous areas of Zone II Explosion protection class: II 3G EX nC/nR/iC IIB T3 Gc

Your advantages:

> Proven MAXX technology for hazardous areas
> Optionally with DK-system for pressure lines
> Highly accurate sample volume
> Clear operating structure and simple programming
> Easy cleaning
> Modern and ergonomic design

Pneumatic distributor and heating according to ATEX

Fold-out plate with Ex-valves and diaphragm vacuum Ex-pump

Model SP5 DK

Technical data at a glance

Housing:	Version without housing (PVC/stainless steel) Option: Stainless steel housing with cooling/heating ; (material: 1.4301/SS304)/ PS/C (GF 10). (Option: 1.4571/SS316; Option: EPOXY coated)
Control:	Microprocessor control, foil keypad, back lit display
Programming:	12 freely programmable user programs, user-friendly software
Interface:	Mini-USB, optional: Ethernet RJ45, SDI-12; optional: Modbus, Profibus DP
Communication:	Optional in combination with PC software or LAN/WLAN /GPRS (2 year ring memory FIFO at 1 min interval)
Languages:	Multi-language, selectable
Signal inputs:	2 x analogue: 0/4-20 mA, working resistance 500 Ohm 8 x digital (flow, event, 1 inputs can be programmed freely) Impuls length 50 ms Option: expandable with 4 x digital, 3 inputs can be programmed freely,
Signal outputs:	8 digital outputs, 1x of them as collective malfunction message Option: expandable with 8 digital, 5 are freely programmable
Sampling method:	Double ball valve system with dosing tube mounted between the two valves. Fixed volume as specified, between 25 and 500 ml, up to 25 bar
Sampling modes:	Time (CT, CV), Flow (VT, CV), Event and Manual sampling
Bottle variants:	1 x 25 L PE in stainless steel housing: 1 x 25 l; 4 x14 l; 4 x 6,3 l; 12 x 3,0 l
Overall dimensions:	Wall-mounted version: control unit (hxwxd) 350 x 450 x 170 mm dosing unit (hxwxd) 570 x 120 x 200 mm version in stainless steel housing (hxwxd): 1470 (2245*) x 690 x 645 mm (* with opened top)
Weight:	approx. 15 kg (wall-mounted version); approx. 100 kg (version with stainless steel housing)
Ambient temperature:	0° to +45° C
Sample temperature:	0° to +40° C
Standards:	CE

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Wall-mounted device for sampling of sludge and from pressurised lines up to 25 bar

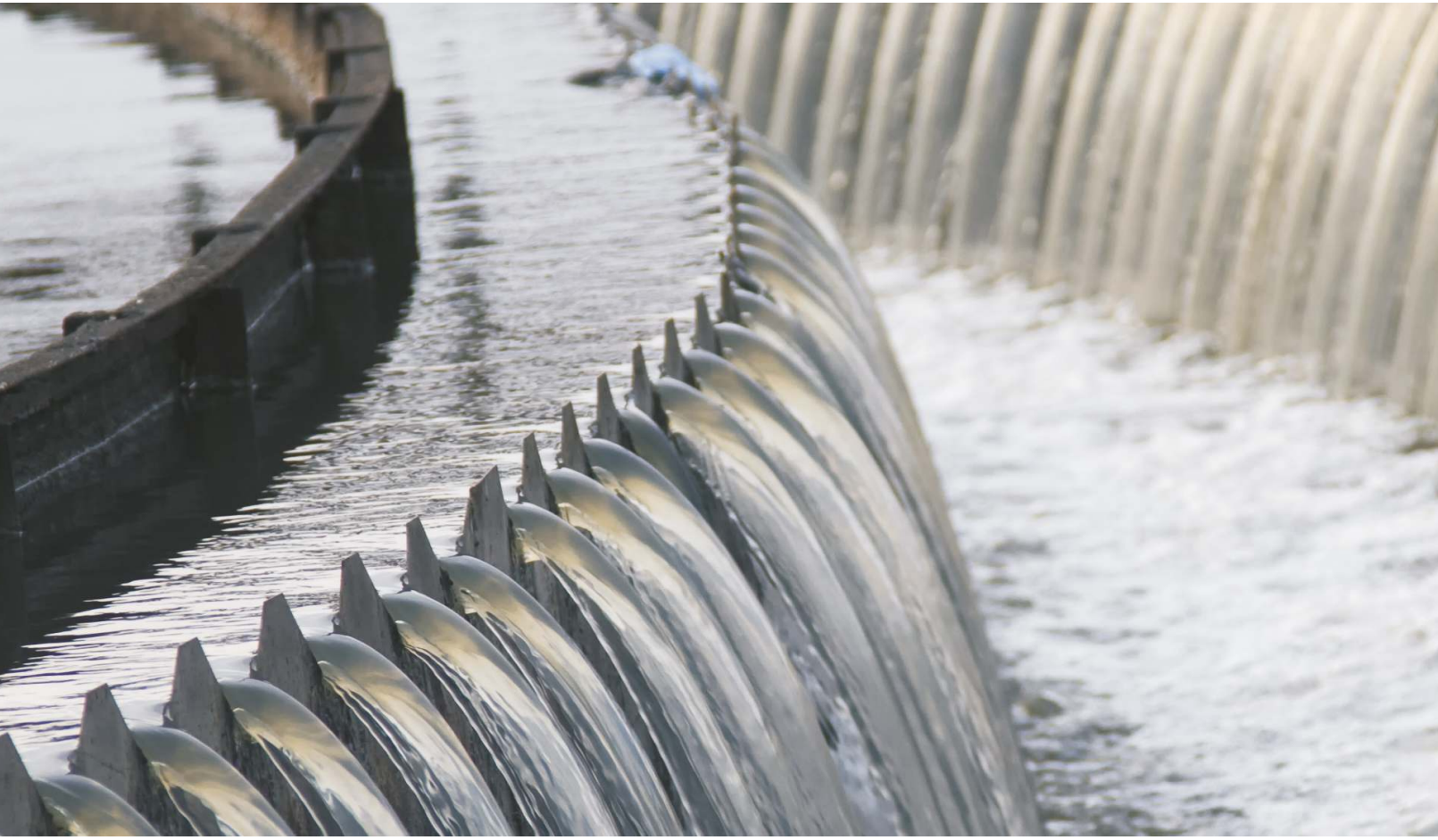
Your advantages:

> Almost no »dead-volume« because of purging
> For sample medium with high solids content (Sludge)
> Can also be used for non-conductive liquids, such as e.g. oil
> Device can also be combined with thermostatic sampling cabinet
> LAN/UMTS/GPRS communication (Option)
> For high pressure up to 25 bar
> Clear operating structure and simple programming
> Easy cleaning

Automatic protection device, interlocking

Pressure-resistant ball valve

Your Notes



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All presented products are subject to technical changes.

TOP 100
top innovator 2016

UMWELT TECHNIKPREIS BADEN-WÜRTTEMBERG 2019
2. PLATZ
KATEGORIE 4
MESS-, STEUER- & REGELTECHNIK, INDUSTRIE 4.0

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Technical subject to changes.