



SENSORS &
CONTROLLERS



ANALYZERS
& SAMPLERS



LEVEL, FLOW
& PRESSURE



WEB APP &
DATALOGGING



ACCESSORIES

SP5 S DATASHEET

THERMOSTAT-CONTROLLED STATIONARY SAMPLER



MAIN FEATURES

- Stationary sampler in a stainless steel housing, especially suitable for corrosive environments and higher ambient temperatures.
- Mains operation 230 V/50 Hz (opt. 115 V/60 Hz).
- Vacuum system plastic dosing unit 15 – 320 ml
- On request peristaltic pump
- with patented motorized valve system for pressure-vacuum switching and pinch valve

VERSION AVAILABLE

Plastic:

- 1x25L
- 1x50L
- 2x10L
- 4x6L
- 4x10L
- 4x14L
- 12x2,9L

Glass:

- 12x2L
- 24x1L
- 24x1L

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SP5 S DATASHEET

TECHNICAL DATA

Housing	Double-walled stainless steel (material I.430I / SS304) / PS / PC (GF10) with 40 mm insulation. Housing separated in sample compartment and control compartment, each with lockable door. Upper door with plexiglass window. Protective top made of Styrosun which can be opened for connection and maintenance works. Option: material I.457I / SS3I6Ti; SS304 EPOXY-coated; SS3I6Ti EPOXYcoated
Thermostatic control	Self-contained, controlled cooling / heating with 4 settings, no-frost. independent of the programmable controller, 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, nonvolatile data memory; storage of sampling and malfunction data like sample extractions, bottle changes, messages, external signals. optional with I/O add-on-board expandable to 32GB
Programming	12 freely programmable user programs, with function to link programs.
Program start options:	Immediately; at a certain time; by an external signal
Program stop options:	End of sampling program after one program run; continuous operation or x-runs
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, RS422/485, RS 232 optional: Ethernet RJ45
Communication:	Optional: Modbus, connection via DP PROFIBUS Optional: LAN/WLAN via TCP/IP RJ45, with IEBrowser, memory 4-32GB SD/SDHC
Languages:	Multi-language, selectable
Signal inputs:	<ul style="list-style-type: none"> • 2 x analogue: 0/4-20 mA, • 8 x digital (flow, event, I inputs can be programmed freely) 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
Signal outputs status messages:	<ul style="list-style-type: none"> • 8 digital outputs, 1x of them as collective malfunction message option: expandable with 8 digital, 5 are freely programmable (in total 6 messages)
Sampling method:	-Vacuum system 20-350 ml Option: vacuum VAR flow-proportional system 5-250 ml Option: peristaltic pump
Single sample volume accuracy:	Vacuum system: < 2,5 % or +- 3 ml Peristaltic pump: +- 5 % or +- 5 ml
Suction height:	Max. 7,5 m (at 1013hPa and stagnant medium), optional 8,5 m
Pumping speed:	>0,5 m/s at suction height up to at least 6 m (at 1013h Pa); pump capacity can be adjusted electronically
Suction hose:	PVC, L=7,5 m, ID=10 mm. Max. hose length 30 m
Sampling modes:	Time-related, flow-dependent, flow-proportional, event-related, manual sample extraction

Bottle variants:	Plastic 1 x 25 L 4 x 14 L 4 x 10 L 12 x 2,9 L, 24 x 1,0 L Glass 12 x 2,0 L 24 x 1,0 L
Overall dimensions:	(Hxwx d) 1.290 (1.890 * with opened top) x 690 x 645 mm
Weight:	Approx. 90 kg with composite container, higher weight when using several bottles and/or glass bottles
Power supply:	230 V / 115 V / AC
Power requirement number of samples:	Approx. 350VA (with cooling)
Ambient temperature:	-20 – 45°C
Sample temperature:	0 – 40°C
Standards:	CE, Sampling according to ISO 5667-2/3-10
Wetted materials:	PC, PVC, Silicone, PS, PE, EPDM (optional: metering vessel glass Duran50, sinker weight SS304)
Accessoires:	Plinth Extraction unit, fixed or pendulous Mobile version Strainer basket Status messages Interior lighting Main switch