



SENSORS &
CONTROLLERS



ANALYZERS
& SAMPLERS



LEVEL, FLOW
& PRESSURE



WEB APP &
DATALOGGING



ACCESSORIES

SP5 B DATASHEET

THERMOSTAT-CONTROLLED STATIONARY SAMPLER



MAIN FEATURES

- Compact, stationary sampler SP5 B in a plastic housing (PE), 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
- Clear operating structure and simple programming
- LAN/W-LAN/GPRS communication (Option)
- Complete separation of electronic section from hydraulic
- Large selection of dosing systems

VERSION AVAILABLE

- Plastic:
 - 1 x 25 l
 - 4 x 14 l
 - 4 x 10 l
 - 12 x 3 l
 - 24 x 1 l
- Direct distributor, 24 x 1 segment bottles for peristaltic pump
- Glass:
 - 12 x 2,0 l
 - 24 x 1,0 l

TECHNICAL DATA

Housing	PE with 50 mm insulation / PS / PC (GF10)
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, 1 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) 1.100 (1.640*) x 760 x 745 mm *) with opened top
Weight	Approx. 75 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 temperatur	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