

**Fixed site water sampler
model SP III-M
Measuring station**

Fixed site sampler in stainless steel housing with thermostatic control and measuring rack



Vacuum system:
Approved, reliable system, manual adjustment of the dosing volume, very accurate sample volume up to 500 ml.



Flow-proportional vacuum system (VAR):
Offers the advantages of the vacuum system combined with a variable dosing volume adjustment according to the analogue signal 0/4-20 mA.



Flow-through system:
Especially suitable for sample extractions by means of a bypass line or extractions by means of an external pump with flow rates from 3-20 l/min.



Data sheet SP III-M	
Housing with measuring rack	Double-walled stainless steel (material 1.4301) with 40 mm insulation and 2 lockable doors. Upper door with plexiglass window. Protective heating in upper part. Protective top which can be opened for connection and maintenance works. For installation of 4 measuring transducers, size 96 x 96. Thanks to their own power supply, the measuring units can be operated independently from the sampler. The sensors can be suspended directly into the flume by means of armatures or chains (diverse fixing armatures are available as option). Mains supply of measuring units: 230 V / 50 Hz.
Self-contained thermostatic control	Automatic cooling and heating of the sample compartment at +4 °C independent of the programmable controller
Control	Microprocessor control with 4 MB Flashrom, 32KB RAM (battery-buffered), 32 KB EEprom, 3 digital inputs and 8 digital outputs, 1 configurable analogue input. Battery-buffered real-time clock. Operation by means of a waterproof foil keyboard (with keys 0-9, ESC, ENT, cursor) and 4 x 20 character back lit LC-display.
Overvoltage protection	All inputs are protected against overvoltage
Programming	Time display: Hours, minutes, seconds weekday, day, month, year Time display: Date and time Sampling: •time related •flow-related (analogue (0/4-20mA) or digital) •event-related or in combination. •interval 1 min to 15 h •bottle filling 1 min to 99 h 59 min •programs 6 user programs (for free editing) •data memory logging of sample extraction and messages <i>Optional storage of external data</i>
Languages	multi-language, selectable
Interface	RS 232
Modem	Optional: GSM, AT or ISDN modem to change the programming, for a status fetch, a data fetch or a message transmission as SMS.
PC software	Optional: PC software (Win98, NT, XP) for parameterization, status control, data fetch and direct storage as excel file/text file/PDF file.
Status messages	Optional: Sampling, distributor, program active and collective malfunction message.
Dosing systems (optional variants)	<ol style="list-style-type: none"> Vacuum system Metering vessel made of glass Duran 50, adjustable volume 20 - 350 ml (<i>optional</i>: 20 - 500 ml). Diaphragm pump 12 V / 4 A, vacuum 7,5 m, pressure 1 bar, motor-driven valve system¹ for change-over pressure/vacuum/aeration, average suction speed with suction hose ID 12 mm and 5 m suction height > 60cm/sec. Variable vacuum system (for flow- proportional sampling) 0/4 - 20 mA- Metering vessel made of glass Duran 50, adjustable volume 25 - 450 ml. At the variable dosing system the dosing volume is <u>automatically</u> adapted to the <u>analogue</u> flow signal. Flow-through system Metering vessel made of glass Duran50, for flow rates from 3 - 20 l/min., adjustable volume 20 - 250 ml with 2 motor-driven pinch valves².
Sample bottles	1 x 25 l PE 1 x 50 l PP 2 x 10 l PE 4 x 6.5 l PE 4 x 10 l PE 4 x 14 l PE 12 x 2.9 l PE 12 x 2.0 l glass 24 x 1.0 l PE 24 x 1.0 l glass
Overall dimensions	1470 (2070*) x 690 x 645 mm (h x w x d) *) with opened top
Weight	Approx. 110 kg
Power supply	230 V / 50 Hz, fuse protection 16 A, cable with shock-proof plug 1,5 m
Power requirement	Sampler approx. 350 VA, per measuring unit max. 18 W
Analogue input	Optoelectronic coupler input, threshold voltage 3,3 V
Ambient temperature	-20 °C to + 40 °C
All devices are according to ISO 5667	

Subject to technical changes

*) Patent No. DE 19726550A, DE 19726549A1 and VAR unit DE 10008623.3

