

WS 98

Wall-Mounted Water Sampler



Extraordinary Flexibility in a Wall-Mounted Unit

The WS 98 is a sampler of uncompromising WaterSam quality and performance, designed to be a compact and economical unit for simpler sampling applications.

- Housing made entirely of high-grade stainless steel 316Ti
- Vacuum/pressure system for precise sample volumes
- No recalibration necessary after cleaning
- 8 other sampling systems available, even as double systems
- Program linking and parallel operation as standard software
- For wall mounting or in an optional support frame (see photo right)
- Can be used to upgrade samplers from other manufacturers
- Optional connections for heating and refrigeration control
- Also available: XY Distributor for direct, discrete sample distribution; eliminating cross-contamination as well as the need to clean a distributor plate
- Numerous sample bottle sets
- Different bottles and containers in one set for both discrete and composite samples
- Customer-specific bottles can also easily be used



WaterSam WS 98 - Technical Specifications

General

Applications	Wall mounted water / wastewater sampler for indoor settings
Norms	CE
Dimensions	H x W x D: 340 x 472 x 190 mm
Weight	ca. 12 kg, depending on equipment
Power Requirements	230 V AC; 50 Hz Main fuse: 4/10 A
Output	ca. 60 VA

Sampling System

Standard	VAC vacuum-pressure sampling system for time-, volume-, event-proportional sampling
Flow-Proportional (Optional)	- VAR-B: contactless; variable volume - VAR-E: variable volume - Peristaltic pump: variable volume
Other (Optional)	- second sampling system - VAC with safety valve for pressurized lines - Water switches: FMWW, PRF - WS INLINEcut - WS INLINEevent
Sample Volume	15-350 ml (optional: up to 2000 ml)
Metering Vessel	DURAN 50 borosilicate glass; dishwasher-safe, resistant to acid, alkaline, and temperature changes
Pump Performance	230 V AC; -0.8 to 1.8 bar; brushless; 8 m lift height: 14.5 l/min free flow; V _m 0.5 m/s for lift heights up to 6 m Opt.: high-performance pump(s) and/or WS VacuPress for lifts heights up to 30 m or more
Intake Hose	12 mm ID PVC (optional: other diameters)
Wetted Parts	Borosilicate glass, PE, PVC, silicone, stainless steel 304/316Ti (optional: alternative materials as required)

Housing

Housing Material	Double-walled stainless steel 304 Optional: - Stainless steel 316Ti - Powder-coating (RAL colours) - GFK
Environmental Consideration	Construction facilitates easy separation of materials for proper recycling and disposal

Additional options and accessories as well as custom equipment available by request.

Standard Controller

General	Microprocessor controller with 4-button operation, 4 x 20 character display, real-time clock, battery backed-up RAM memory (5 years), overload-protected outputs, 4 completely separated analog inputs (differential input)
Software	Menu-based operating system Up to 9 user-defined sampling programs; any/all programs can be run simultaneously or linked. Memory for fault, event, and operational conditions, preset operating programs, always switchable. Preset and user-defined distributor settings
Inputs	4 x analog 0/4-20mA 10 x digital (flow, event, multiple programmable inputs)
Outputs	16 x digital (program active message, fault message, other programmable messages)
Interface	RS 232, optional RS 485
Modem (optional)	Remote operation / fault message via SMS / Remote start via mobile phone
Advanced controller (optional)	See MS3 Controller datasheet

Sample Bottles / Distribution

Composite Container	10.4 / 15.4 / 20 / 26 / 60 l PE
Distributor	XY Distributor, direct sample depositing with two-axis positioning system (only available in combination with optional support frame)
Bottle Synchronization	Automatic
Bottle Sets with Distributor e.g.	<i>Discrete samples :</i> 4 x 10,4 l / 12 l 5 x 6,4 l PE 6 x 6,4 l PE 12 x 2,9 l PE 16 x 2,9 l PE 16 x 2 l Glas 16 x 4 l PE 24 x 1 l PE 24 x 2 l PE 30 x 1 l Glas 36 x 1 l PE / Glas 49 x 1 l PE / Glas 64 x 0,35 l PE <i>Discrete + composite samples:</i> 12 x 2,9 l + 1 x 10,4 l PE 12 x 2,9 l + 1 x 12 l PE

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