

Wall-mounted sampler

Fully automatic, wall-mounted sampler for discontinuous time, flow (CVVT) and event-proportional [optional: flow-proportional CTVV] sampling according to the vacuum principle. All-weather design for in-and outdoor installation.

Housing

Made of stainless steel 316Ti.

Controller

Microprocessor controller with waterproof membrane keyboard and backlit 128 x 128 pixel full graphic display. 24 buttons with numeric keypad, three function buttons below the display for e.g. direct start of programs without pressing any further buttons and cursor buttons. Color coded buttons for start, pause, stop and manual sampling each in a different color.

9 sampling programs, of which several and all programs can be activated and run simultaneously. Each program can be assigned a separate operating mode (time, quantity, event and, if applicable, flow rate). Automatic program repetition and linkage of several / all programs.

Communication: Webserver and Modbus protocol (ASCII, RTU or TCP/IP) [optional: Profibus-DP or Profinet].

Interface: RS-232, RS-485, Ethernet RJ45, USB Host and USB Com Port Slave

Inputs: 4 separate analog input 0/4-20 mA and 16 digital inputs

Outputs: 1 analog output 4-20 mA and 16 digital outputs

4GB internal memory, usable for internal data and connected sensors. Sufficient storage space for the entire sampler lifetime.

Intelligent sensors can be connected without an additional transmitter. Software update by USB flash drive.

Program backup over the entire lifespan of the sampler and copy function for programs.

Sampling System

Pressure-vacuum sampling system for time, flow (CVVT) and event proportional sampling.

Metering vessel made of borosilicate glass for single samples from 15 to 350 ml [optional: up to 2000 ml].

The dosing unit is located in the temperature-controlled sample storage cabinet and therefore frost-protected.

For sampling under pressure-free conditions.

At least 12 mm internal diameter of the complete sample line (from hose tip to the bottle).

Hose inlet from left or right side.

[optional:

- VAR-C sampling system for flow proportional sampling (CTVV)
- VAR-E sampling system for flow proportional sampling (CTVV)
- Peristaltic Pump
- Sampling system for pressurized lines (please contact WaterSam)]

Pump

Standard pump: 230 V AC, air capacity 14 l/min, pressure 1 bar, vacuum -0.8 bar, lift height up to 8 m. Motorized pinch valve with adjustable closing force. Pinch valve works without twisting the hose.

[optional:

- High-performance pump: 230 V AC, air performance 19 l/min, pressure 6 bar, vacuum -0.85 bar, lift height up to 8 m; Pneumatic pinch valve without twisting the hose, average pump running time: 15,000 hours (corresponds to approx. 10 years)].
- High-performance pump: 230 V AC, air performance 34 l/min, lift height up to 9 m. Motorized pinch valve with adjustable closing force. Pinch valve works without twisting the hose.]

[Please select desired bottle configuration (more configurations upon request)]

Composite sample containers (no distributor):

- 1 x 10,4 l PE
- 1 x 15,4 l PE
- 1 x 20 l PE
- 1 x 26 l PE
- 1 x 60 l PE

[optional: Sample distribution

XY-distributor for direct sample distribution. Two distributor arms for guiding the distributor hose over the respective sample bottle and releasing sample directly into the bottle. Several preset bottle layouts and free memory for entering any bottle positions directly on the control by the user. Simultaneous use of several different bottle sizes as well as utilization of the entire surface area of the sample chamber is possible.

Automatic catching up of bottle changes after a power failure.

Stainless steel support frame for mounting sampler and XY-distributor. Including PVC base plate for sample bottles. Dimensions approx. 1000 x 800 x 555 mm (HxWxD).

Discrete sample bottles (with XY-distributor):

- 2 x 10,4 l PE
- 4 x 10,4 l PE
- 4 x 12 l PE
- 4 x 12 l glass
- 4 x 15,4 l PE
- 4 x 20 l PE
- 4 x 25 l PE
- 5 x 12 l PE
- 14 x 4 l PE
- 16 x 2,9 PE
- 16 x 2 l glass
- 24 x 2 l PE
- 24 x 2 l PE mit zweiteiliger Tragewanne
- 30 x 1 l glass
- 36 x 1 l PE
- 36 x 1 l PE with two-piece carrying tray
- 36 x 1 l glass with two-piece carrying tray
- 36 x 1 l glass with three-piece carrying tray
- 49 x 1 l PE
- 64 x 0,35 l PE

Sets with composite container and discrete sample bottles (with XY-distributor):

- 12 x 2,9 l PE + 1 x 12 l PE
- 24 x 1 l PE + 1 x 12 l PE
- 24 x 1 l + 1 x 12 l glass]

Intake hose

Fabric-reinforced PVC intake hose; 5 m length, 12 mm ID, vacuum stable. Including stainless steel tip.
[optional: Strainer basket]

Technical data, dimensions and weight

Mains power: 230 V **[optional: 120 V]**, 50 Hz **[optional: 60 Hz]**; 16 A fused on site

Dimensions (H x W x D): 1.020 x 590 x 590 mm

Weight: approx. 70-80 kg, depending on equipment

Type: WS 312

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