

## WS Compact Mobile Sampler

NEW



### Portable Automated Sampling

The WS Compact is a battery-operated sampler. With its one-piece plastic housing and compact design, the sampler is easy to carry to remote locations.

### ADVANTAGES AT A GLANCE

- Lightweight sampler housing made of HDPE
- Compact design with controller in protected interior
- Built-in battery allows use away from mains power
- Up to 3 weeks battery life with intelligent power saving mode
- Socket for connection of an external battery or charger
- Socket for connection of flow or event signal
- USB-socket
- Robust vacuum pump sampling system for highest repeatability, simple cleaning and minimal maintenance
- Lockable with separate lock

# TECHNICAL DATA

## GENERAL

Portable sampler for indoor and outdoor applications

Housing Materials	Sampler housing HDPE
Dimensions (H x W x D)	640 x 505 x 450 mm
Weight	approx. 17.5 kg
Power Requirements	Mains power: 110 – 240 V AC; 50/60 Hz Battery: 24 V DC



## SAMPLING

Sampling System	SVAC vacuum pump system for sampling under pressure-free conditions
Sampling Modes	All sampling systems from WaterSam can take time-, volume- and event-proportional samples
Sample Volume	12 – 200 ml (optional: 350 ml); multiple-shot metering possible
Pump	24 V DC; -0.7 to 1 bar; 7 m max. lift height; 9 l/min free flow
Wetted Parts	Borosilicate glass, PE, PVC, stainless steel, silicone

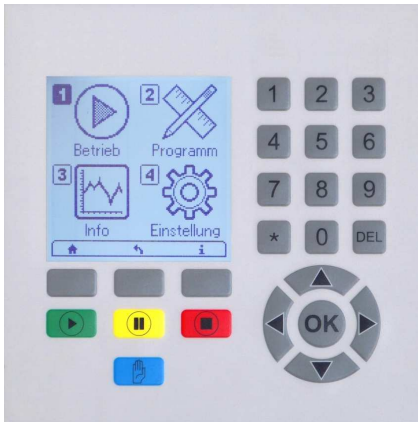
## SAMPLE DISTRIBUTION

Sample Distribution 1 x 17 l composite container HDPE



# CONTROLLER

## MS3 Controller



With the MS3 controller, WaterSam has set new standards. In addition to comprehensive communications possibilities, the MS3 sets itself apart with its through its user-friendly layout and easy operation.

## ADVANTAGES AT A GLANCE

### Easy Operation

The large backlit graphic display permits a clear and simple view of menus. The 24 keys make menu navigation very straightforward and easy. In addition to the numerical and navigation keys, there are direct function keys to start, pause and stop selected programs, as well as take a grab sample. This means controller operation remains dependable regardless of precipitation or extreme temperatures; even when using gloves.

### Versatile Parameter Settings

All programs can be configured according to the user's needs. Programs can be run simultaneously or in a specific order. If the application demands special considerations, a wide range of system and program parameters can be adjusted without hassle. In order to protect the sampler against unauthorized access, a special code can be set by the operator to limit access to several different menu levels. The levels of protection permit varying degrees of access to specific sampler functions and settings.

### Comprehensive Communication

The numerous ports on the controller allow simple communication with the sampler. With a Modbus protocol, the sampler can be integrated into an on-site control system

The USB port can be used to retrieve saved data as well as load software updates. The available webserver allows access to sampler functions and information.

The controller has 4 GB of storage space, which can be expanded to 32 GB.

In addition to 4 separate analog inputs and an analog output, the MS3 controller features 16 digital inputs and 16 digital outputs as standard equipment.

### Energy Efficient

The technologically advanced MS3 has especially low power consumption.

Additionally, portable samplers feature an intelligent sleep mode to further increase efficiency and thereby extend battery life. The sleep mode is activated not only before and after a sampling campaign, but also in between individual samplings.



## MS3 CONTROLLER TECHNICAL DATA

### OPERATION

Waterproof keypad with 24 keys, incl. 4 color-coded direct function keys, navigation keys, numerical keypad, 3 flexible-function keys



### SOFTWARE & PROGRAMS

Graphic menu;  
optional display of various selectable data

Up to 9 programs  
(number of programs adjustable),  
multiple / all programs can be run simultaneously

### INTERFACE

RS-232, RS-485, TCP/IP, USB Host,  
USB Com Port Slave

### SOFTWARE UPDATES

via USB flash drive

### INPUTS

#### ANALOG

4 separate analog inputs  
0/4-20mA

#### DIGITAL

16 digital inputs  
e.g. for flow, events, external control, start, stop, distributor movement, etc.

### OUTPUTS

#### ANALOG

1 analog output 4-20 mA

#### DIGITAL

16 digital outputs  
e.g. for messages, external control;  
expandable by request

### DATA STORAGE

4 GB, optionally 32 GB or more;

usable for storing internal data  
(sampling data, quality parameter values, other sampling information)  
and data from external sources  
(pH, flow, conductivity sensors, etc.)

### COMMUNICATION

Modbus via RS-485 or TCP/IP  
Webserver  
Optional:  
Profibus-DP, Modem

### DATA RETRIEVAL

RS-232, RS-485, Modbus  
download via USB flash drive / TCP/IP  
Optional: via webserver, Modem  
or Profibus-DP

## OPTIONS

We will gladly create a quotation for a sampler especially designed for you and your requirements.

You can profit from our years of experience and technical expertise. All desired options will be included when building your sampler to provide a complete package solution.

You'll be amazed at the possibilities.

### INTAKE LINE

- Strainer
- Positioning armature for intake hose

### DATA STORAGE

- Data logger (for saving sampling data, monitoring data from external sensors)

### SAMPLING COMPONENTS

- Conforming of materials for the sampling line (intake hose, sampling system, distributor hose, sample bottles) e.g.: PTFE, PVDF, FPM.

Other options  
available upon  
request

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QUESTIONS ?

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