

PRODUCT INFORMATION

SAMPLER
PORTABLE
BÜHLER 1000



BÜHLER 1000 portable sampler with MCERTS bottles

- **Compact, rugged and weatherproof**
- **Easily portable**
- **Pressure-vacuum principle**
- **Maintenance-free battery**
- **Lockable stainless steel carrying handle**
- **Intuitive programming**

Perfect in the field

The BÜHLER 1000 portable sampler is ideal for use in sewage treatment plants and industrial facilities, and for monitoring surface waters. The instrument is easily transportable and with its numerous container options, highly flexible. The instrument collects composite and fractionated samples and can accommodate up to twelve freely programmable sampling procedures.

Representative sampling

The BÜHLER 1000 collects representative samples in conformity with ISO 5667. The high suction rate prevents particles from sedimenting during the suction process. The optional MCERTS bottles can be used to store samples for up to 72 hours at 4 °C without freezing. The BÜHLER 1000 therefore easily satisfies the strict requirements of the British Environment Agency's Monitoring Certification Scheme (MCERTS).

Technical data

Sampling principle	Pressure-vacuum principle
Sample volume	20–350 ml
Sample containers	1 × 5 litre PE container 1 × 12 litre PE container 24 × 0.5 litre PE container 24 × 1 litre PE container 1 × 10 litre glass bottle 12 × 1 litre glass bottles
Optional sample cooling	4 °C for at least 72 hours thanks to ice in the bottom section of the standard bottle and 10 rectangular cooling batteries in the MCERTS-certified bottom part with 5 litre composite sample container
MCERTS	Variant suction rate, volume accuracy and sample temperature in conformity with MCERTS requirements
Sample lift height	Max. 8 m
Suction rate	>0.5 m/s for sample lift height of up to 7 m; pump output electronically adjustable (patented)
Suction tubing	Reinforced PVC tube with intake nozzle (9.5 mm ID)
Accuracy of individual sample volume	2.8 % (95 % confidence interval)
Program start options	Immediately; at a specified time; in response to an external signal; when a previous programme finishes
Program stop options	End of sampling when a programme finishes; at a specified date/time; continuous sampling
Pause mode	Interruption of the running programme
Rinse mode	1–10 rinses per sample intake
Overfill safeguard	Adjustable to 1–9,999 samples/bottle
Sampling	Time, volume and event-proportional Interval control: 1 min. to 99 h in one-minute steps Pulse control: 1 to 9,999 pulses/sample Analogue volume mode: 0/4–20 mA input signal Manual sampling is possible at any time without interfering with the programme sequence.
Start delay	1 min. to any desired future date
Remote start	Start through floating contact
Control	Microprocessor
Operation	6-key control
Display	Graphic dot matrix LCD, 128 × 64 pixel, backlit
Languages	Choice of several languages
Error analysis	All important functions can be checked and displayed
Data storage	Sample and message logging
Data protection	Up to 5 years after loss of power supply
Power supply	Maintenance-free rechargeable battery, 12 V, 7 Ah, buffer mode
Battery charger	For charging the battery and for buffer mode
Housing	PE with openable lid and stainless steel retaining clip
Operating temperature	0 °C to +45 °C; sample temperature 0 °C to +40 °C
Dimensions	Height: 565–875 mm, diameter 360–421 mm depending on type of container; as a standard feature, the sampler can be locked to prevent improper use
Weight	10–20 kg, depending on type of container

Subject to change.



Complete BÜHLER 1000 sampler unit including bottles



Sampler head with metering vessel, programming unit and status-LED

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