

## 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

<b>Sampling principle</b>	Pressure-vacuum principle
<b>Sample volume</b>	20–350 ml
<b>Sample containers</b>	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
<b>Optional sample cooling</b>	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
<b>MCERTS</b>	Variant suction rate, volume accuracy and sample temperature in conformity with MCERTS requirements
<b>Sample lift height</b>	Max. 8 m
<b>Suction rate</b>	>0.5 m/s for sample lift height of up to 7 m; pump output electronically adjustable (patented)
<b>Suction tubing</b>	Reinforced PVC tube with intake nozzle (9.5 mm ID)
<b>Accuracy of individual sample volume</b>	2.8 % (95 % confidence interval)
<b>Program start options</b>	Immediately; at a specified time; in response to an external signal; when a previous programme finishes
<b>Program stop options</b>	End of sampling when a programme finishes; at a specified date/time; continuous sampling
<b>Pause mode</b>	Interruption of the running programme
<b>Rinse mode</b>	1–10 rinses per sample intake
<b>Overflow safeguard</b>	Adjustable to 1–9,999 samples/bottle
<b>Sampling</b>	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.
<b>Start delay</b>	1 min. to any desired future date
<b>Remote start</b>	Start through floating contact
<b>Control</b>	Microprocessor
<b>Operation</b>	6-key control
<b>Display</b>	Graphic dot matrix LCD, 128 × 64 pixel, backlit
<b>Languages</b>	Choice of several languages
<b>Error analysis</b>	All important functions can be checked and displayed
<b>Data storage</b>	Sample and message logging
<b>Data protection</b>	Up to 5 years after loss of power supply
<b>Power supply</b>	Maintenance-free rechargeable battery, 12 V, 7 Ah, buffer mode
<b>Battery charger</b>	For charging the battery and for buffer mode
<b>Housing</b>	PE with openable lid and stainless steel retaining clip
<b>Operating temperature</b>	0 °C to +45 °C; sample temperature 0 °C to +40 °C
<b>Dimensions</b>	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
<b>Weight</b>	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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**HACH LANGE LTD**  
Pacific Way  
Salford  
GB-Manchester, M50 1DL  
Tel. +44 (0)161 872 1487  
Fax +44 (0)161 848 73 24  
info@hach-lange.co.uk  
www.hach-lange.co.uk

Phone: (0161) 872 14 87



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