



BÜHLER 4011 Stationary automatic water sampler

Order number: BU4011.XX.XXXXX

- Stainless steel housing (optional: plastic-coated stainless steel)
- Strict separation of control and sample sections
- Composite and fractionated samples
- BUS and GSM communication

Stationary sampler with insulated stainless steel housing, separated control and sample compartment with lockable door, flexible sampling options and various bottle configurations.

Sample volume accuracy, suction velocity and cooling performance certified according to MCERTs regulation.

This sampler covers almost 90% of the demands in routine and is ideal for use in sewage treatment and industrial facilities and for monitoring surface waters.

The sampler functions according to the pressure-vacuum principle and operates in time, volume, flow or event-based mode.

The different dosage vessels make the instrument extremely flexible in standard and individual applications. The temperature-controlled weatherproof V2A housing is optional and available in V4A and plastic-coated

stainless steel. The strict separation of the control and sample sections ensures that the instrument has a long life.

Technical Specifications

Accuracy	Single Sample Volume accuracy
Bottle filling time	Bottle filling time adjustable 00:01 mm:hh to 999:59 mm:hh
Communication	Optionally available Communication interfaces for MODBUS TCP, PROFIBUS DP
Cooling system	Yes (EPOXY coated fridge as option)
Depth sampler housing (cover/top closed)	645 mm mm (Standard enclosure)
Height sampler housing (cover/top closed)	1325 mm mm (Standard enclosure)
Height sampler housing (cover/top opened)	1895 mm mm (Standard enclosure)
Keypad	Numeric key pad, 4 arrow navigation keys, enter and back key
Languages user interface	HR, SI, SG, GR, GB,NL, IT, DK, SE, PL, ES, RU, DE, FR, PT, CZ, HU,

RO, SK, BG, TR

Logging	sample history, input signals, bottle changes, alarms in combination with time/date stamp
Manual Sampling	possible at any time without effecting sampling program
Manual languages	DE, FR, GB, IT, NL, ES, SE, CZ, DK, RU, PL, RO, BG
Non return valve	available in combination with glass dosing systems
Norms	ISO 5667
Number of user programs	12 free to define user programs
Operatin conditions	Pressureless sample taking is a must for all dosing options except Bypass
Password Protection	Programm changes and internal functions can be password protected
Power requirements (Voltage)	115/220 V AC
Program Start Options	immediately, at a certain time, at external Signal, certain weekday
Program Stop Options	Stopp sampling after programm is passed, after a certain amount of runs or continous run mode
Relays	Collective malfunction relay as standard, up to 4 relays optionally available
Sample Interval	1 min. to 99h59min in minute-steps (time proportional mode)
Sample Volume Accuracy	2.8 % (at single sample volume of 250mL, 95% confidence interval)
Sample container	Plastic (PE): 1 x 25 l, 1 x 50 l, 2 x 10 l, 2 x 22 l, 4 x 6 l, 4 x 10 l, 4 x 14 l, 4 x 20 l, 4 x 25 l, 12 x 2,9 l, 24 x 1,0 l, 24 x 2,9 l Glass: 12 x 2 l, 24 x 1 l, 24 x 2 l
Sample distributor	Round distributor for multi-bottle versions (distribution plate used for some bottle configurations)
Sample temperature	Water Sample temperature range 0.1 - 40 °C (ice free)
Sample volume	Sample volume adjustable at Standard Dosing System 20 - 350 mL (optional Dosing Systems: Bypass, CTVV - constant time, variable volume, 500mL Dosing option)
Sampler type	Stationary
Sampling Principle	High accuracy Pressure-Vacuum-Principle
Sampling mode	pressureless sampling, optional: sampling from pressurized lines
Sampling pacing modes	timeproportional, flowproportional (CVVT), flowproportional CTVV (constant time, variable volume)(Option), external event, manual sampling

Stray light	0.5 m/s or greater; at suction height up to 7,8 m (at 1013 hPa); membrane pump performance electronically adjustable by operator
Suction Height	max. 8 m (at 1013 hPa, 20°C and static medium)
Suction Hose Length	7.5m as standard (max. allowed length of suction tube is 30 m)
Suction Hose Material	PVC as standard (PTFE optionally)
Suction Hose Outer Diameter	14
Suction hose inner diameter (mm)	12
Temperature	Ambient temperature -20 - 43 °C
Type of distributor	Round distributor for multi-bottle versions (distribution plate used for some bottle configurations)
Weight	approx. 90 kg with composite PE bottle; greater with multi bottle or Glass bottle option
Width sampler housing (cover/top closed)	605 mm mm (Standard enclosure)

Subject to change without notice.