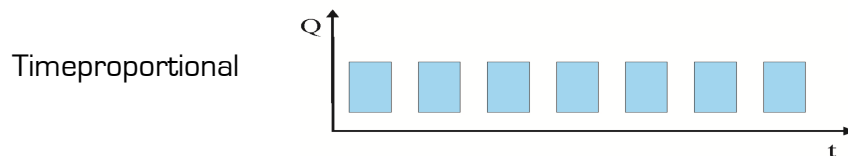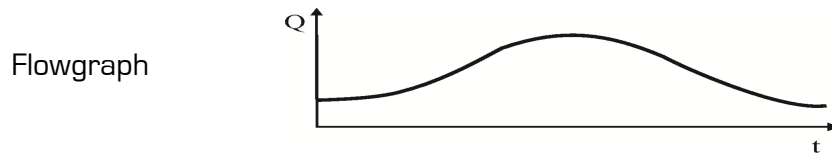## Sampling modes

Graphical representation of sampling modes TIME-FLOW-EVENT

**Flowgraph**

Timeproportional

A sample is extracted in **fixed** time intervals with a **fixed** sample volume

Flow-dependent
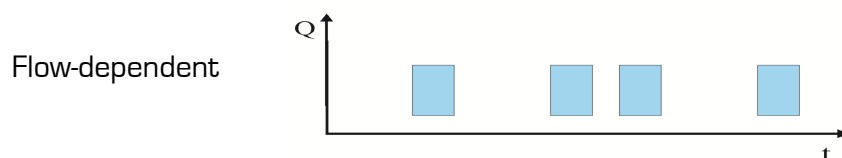
A sample is extracted in variable time intervals (depending on the flow (Q)) with a fixed sample volume

Flowproportional
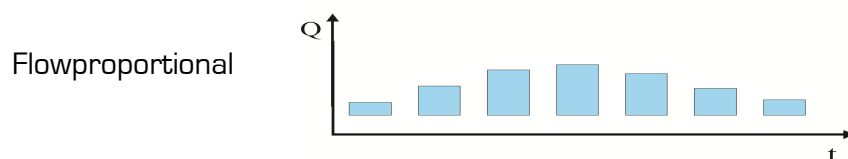
A sample is extracted in fixed time intervals, however, with a variable sample volume (the sample volume is directly depending on the flow (Q) = mA signal)

Eventproportional

Event signal
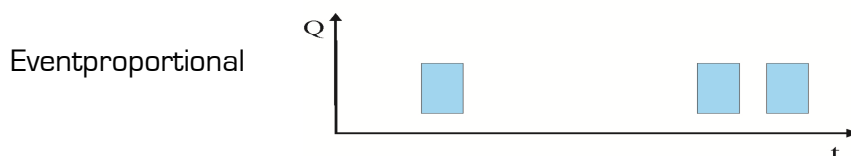
The sampler is waiting for an event (e.g. the exceeding of a pH limit value). A sample is extracted in fixed time intervals (e.g. every 10 minutes) with a fixed volume (e.g. 50 ml) as long as an event is present.

MAXX ®
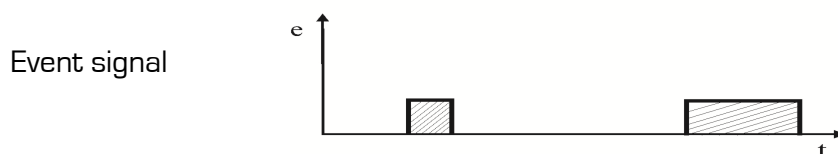
Sampling modes

The following program modes can be programmed:

Time-proportional

In this sampling mode the sample extractions as well as the bottle change are effected in fixed time intervals.

| Parameters to be programmed: | Sampling interval | e.g. 00:05 | hh:mm |
| | Bottle filling time | e.g. 02:00 | hh:mm |

Flow-dependent – digital

In this sampling mode the sample extractions are effected in dependence on flow pulses. The bottle change is either effected in fixed time intervals or after a certain number of sample extractions.

Parameters to be programmed: Pulse divider   e.g.   100
(a sample is always extracted after 100 pulses)

Bottle filling time   e.g.   02:00   hh:mm

or   Bottle change after
X sample extractions   e.g.   100

Flow-dependent – analogue

In this sampling mode the sample extractions are effected in dependence on an analogue flow signal (0-20 mA or 4-20 mA). A sample is extracted after a programmed flow quantity. Thus the intervals between the sample extractions vary according to the flow signal. The bottle change is either effected in fixed time intervals or after a certain number of sample extractions.

Parameters to be programmed: Flow per sample extraction   e.g.   1 m³

Bottle filling time   e.g.   02:00   hh:mm

or   Bottle change after
X sample extractions   e.g.   100

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Sampling modes

Flow-proportional

In this sampling mode the sample extractions are also effected in dependence on an analogue flow signal (0-20 mA or 4-20 mA). The interval between the sample extractions is fixed. The single sample volume is adjusted according to the flow signal at each sample extraction. This sampling mode can only be programmed if the optional VAR dosing unit is installed.

Parameters to be programmed:	Sampling interval	e.g.	00:05	hh:mm
	Single sample volume at 20 mA	e.g.	400 ml	
	Bottle filling time	e.g.	02:00	hh:mm

At a flow signal range of 0-20 mA and an instantaneous value of 20 mA, a 400 ml sample is extracted. At an instantaneous value of 10 mA, a 200 ml sample is extracted and at 5 mA, a 100 ml sample.

Event-dependent

In this sampling mode the sample extraction is only effected as long as an external event signal (potential-free make contact) is present. The sampling interval and the bottle change are fixed. A bottle change is effected at each new event signal. If the event is longer than the programmed bottle filling time, two or more bottles will be filled for one event according to the programmed bottle filling time.

Parameters to be programmed:	Sampling interval	e.g.	00:05	hh:mm
	Bottle filling time	e.g.	02:00	hh:mm