

PRODUCT INFORMATION

SAMPLER
PORTABLE
SIGMA SD 900



Portable, practical and rugged: SIGMA SD 900

- **Easy to operate, with intuitive user guidance**
- **Reduced maintenance through spring-mounted peristaltic pump**
- **Fast programming and updates by computer**
- **Repeated rinsing avoids cross-contamination**

In the field and in the plant

The portable SIGMA SD 900 sampler is ideal for use in wastewater treatment plants, industrial production plants, and for monitoring surface waters. Before and after each sampling operation, an automatic air-purge is carried out. In addition, the intake line can be rinsed several times with the source liquid before sampling is carried out. There is therefore no chance of carryover occurring.

Up to 20 times longer service life

The newly designed peristaltic pump in the SD 900 has spring-mounted rollers. Large particles and solids therefore do not interfere with the sampling and virtually no wear occurs. The pump housing is transparent, so visual checks can be carried out at any time. The compact SIGMA SD 900 is easy to transport, freely programmable and extremely flexible, thanks to the variable container options.



UNITED FOR WATER QUALITY

Technical data

Sampling principle	Peristaltic
Sample volume	10–10,000 ml, programmable in 10-ml steps
Sample container	PE: 1 × 21 l, 1 × 15 l, 1 × 10 l, 2 × 3.8 l, 4 × 3.8 l, 8 × 2.3 l, 24 × 1 l, 24 × 575 ml Glass: 1 × 10 l, 2 × 3.8 l, 4 × 3.8 l, 8 × 1.9 l, 8 × 950 ml, 24 × 350 ml
Suction height	Max. 8 metres
Suction tubing	9.5 mm inside diameter, PVC or Teflon®-coated silicone
Intervals	1–9,999 flow pulses or 1–999 hours (in 1-minute intervals)
Program delay	1) 1–9,999 flow pulses (in one unit increments) 2) Programmable start time and date
Sampling	Time, volume and event-proportional single and mixed samples, with start/stop times or actuation by external signal. Manual sampling can be carried out at any time without causing any interference with the currently running program. Automatic repeat of unsuccessful sampling attempts. Before and after a sample is taken, the sampler is purged with air and/or rinsed with source liquid.
Controller	Keypad with power switch, four function keys and eight navigation keys; status LED
Display	Backlit LC display, 128 × 64 pixels; readable even in direct sunlight
Program storage	3 user-defined application programs
Program protection	Password as protection against changes to the program and system settings
Languages	Choice of several languages
Event log	Power on / User on / User off / Program start / Program resume / Program halt / Program complete / Grab sample / Firmware update / Power fail / Pump fault / Arm fault / Low memory battery / Change tube
Sample history	Up to 255 entries with sample date and time, bottle number and sample status (success, bottle full, rinse error, user abort, etc.)
Serial interface	RS232-compatible. Allows on-site collection of stored data. Can be configured remotely. Supports MODBUS for SCADA connectivity. Option of connecting SD 900 samplers in series (cascade).
Ultrasonic sensor	For contact-free determination of the exact sample volume.
Power requirement	12 VDC supplied by optional AC power converter or battery
Housing	High-impact, injection-moulded PC/ABS blend; double walled, with 2.54 cm insulation; the controller is submersible, watertight, dust-tight, corrosion-resistant and ice-resistant, NEMA 4X, 6, IP 67
Temperature	Sample temperature: 0 °C to +50 °C; storage: -30 °C to +60 °C
Dimensions (D × H)	Sampler with Standard base 50.5 × 69.1 cm Compact base 44.1 × 61.0 cm Composite base 50.5 × 79.9 cm
Weight	Approx. 13 kg, depending on the type of container

Subject to change.



SIGMA SD 900 controller is made of very tough plastic



Distribution option with 24 PE bottles

HACH LANGE Services



Contact us to place an order, request information or receive technical support.



Service packages and extended warranty up to 5 years.