

# SYP fluid sampler

## Product specification

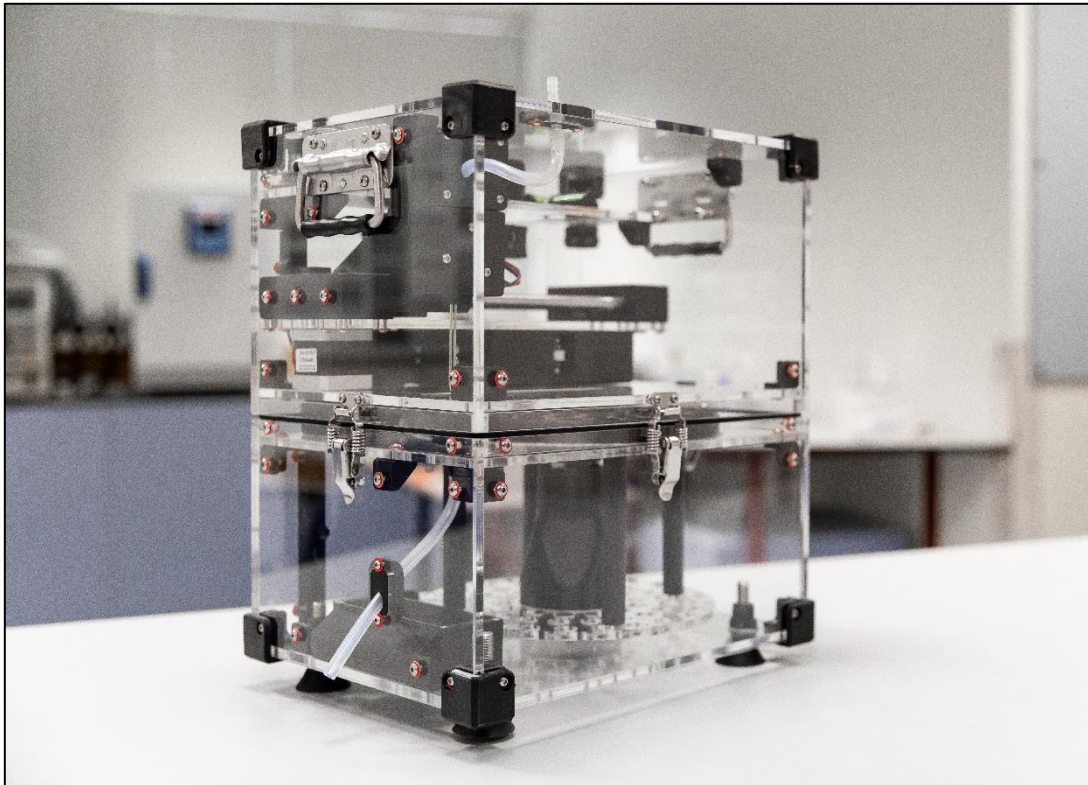


# Description

The SYP fluid sampler is a portable device for automating the collection of water samples over time. Up to 58 discrete samples can be collected without user intervention. The unit has a run time of over 12 months on a weekly sample schedule and uses airtight sample containers, allowing long-term deployment in remote locations. Sample times, vial full events, environmental temperature and humidity are logged for post-analysis.

## Feature summary

- 58 silicon-sealed 10ml vials
- Over 12 months continuous operation on AA batteries
- Fully adjustable sample & rinse schedule using peristaltic pump, gravity and sensor data
- Anti-coring needle and flow stop valve prevent leaks between samples
- Comprehensive sensing: humidity, temperature, air pressure & full vials
- Lightweight, modular design with screw-in vials for easy transport & maintenance
- Adjustable height feet & spirit level for mounting on uneven surfaces
- Carry bags & other peripherals available



## SYP fluid sampler

Specification	Detail
Housing	6mm clear acrylic panels ABS fixings Rubber corners
Control	Graphical user interface Webapp-based configuration via WiFi hotspot Microprocessor control
Data logging & sensors	Time, temperature, humidity, pressure Full vial & water detection Download via webapp
Program options	Instant / delayed / event-triggered start Fixed sample interval with liquid rinse Continuous sampling with full vial detection Configuration & pause via webapp
Collection method	Gravity [hydraulic head] Peristaltic pump
Sample protection	Airtight sample vials Anti-leeching materials for wetted parts Anti-coring, marine-grade needle injection Flow stop valve & customisable purge schedule
Hose	External: Tygon® Internal: Platinum-cured silicon
Vials & carousel	Capacity: 58x 10 ml vials Material: Polypropylene Seal: Scientific-grade silicon Fixture: Vial screw-in to carousel Vial positions labelled on carousel



Overall dimensions (H x W x D, mm)	Assembled: 356 x 312 x 242 Top half: 194 x 312 x 242 Bottom half: 160 x 312 x 242
Weight	9.2kg
Power supply	16x AA alkaline or lithium batteries
Power requirement	10 to 13V DC
Ambient temperature	Upper bound: 50°C Lower bound: determined by liquid freeze temperature

## Sensors & pump

Specification	Range	Accuracy		Displayed resolution
Temperature	-40 to 85°C <sup>1</sup>	0 to 65°C	±1.00°C	0.1°C
Humidity	0 to 100% RH	20 to 80% RH <sup>2</sup>	±3% RH	0.1% RH
Pressure	300 to 1100hPa	300 to 1100hPa <sup>3</sup>	±1.5hPa	1hPa
	<i>Sensor: Bosch Sensortec BME280</i>			
Pump power input	10 - 13V DC, 0.6A			
Pump speed	340 ml/minute			
WiFi	Type 802.11 b/g/n			
Clock accuracy	±3 minutes per year			
Adjustable feet range	Up to 30 mm			

## Carry bags

Specification	Detail
Dimensions	600 x 290 x 250

<sup>1</sup> Best accuracy within 0 - 65°C

<sup>2</sup> When sensor is at 25°C

<sup>3</sup> When sensor is within 0 to 65°C



(H x W x D, mm)	Each bag carries one half of the device. Two bags are needed for one complete unit.
Materials	External: Heavyweight PVC 900g, Polyester 1100dTex Internal: Medium weight PVC 690G, Polyester 1100dTex, 10mm closed-cell foam padding
Straps	50mm Polyamide seatbelt webbing 25mm Polyester packstrap webbing