Waikato Scientific Instruments

syp

Smart tools
for curious people.

A WaikatoLink company

Syp fluid sampler

Product specification

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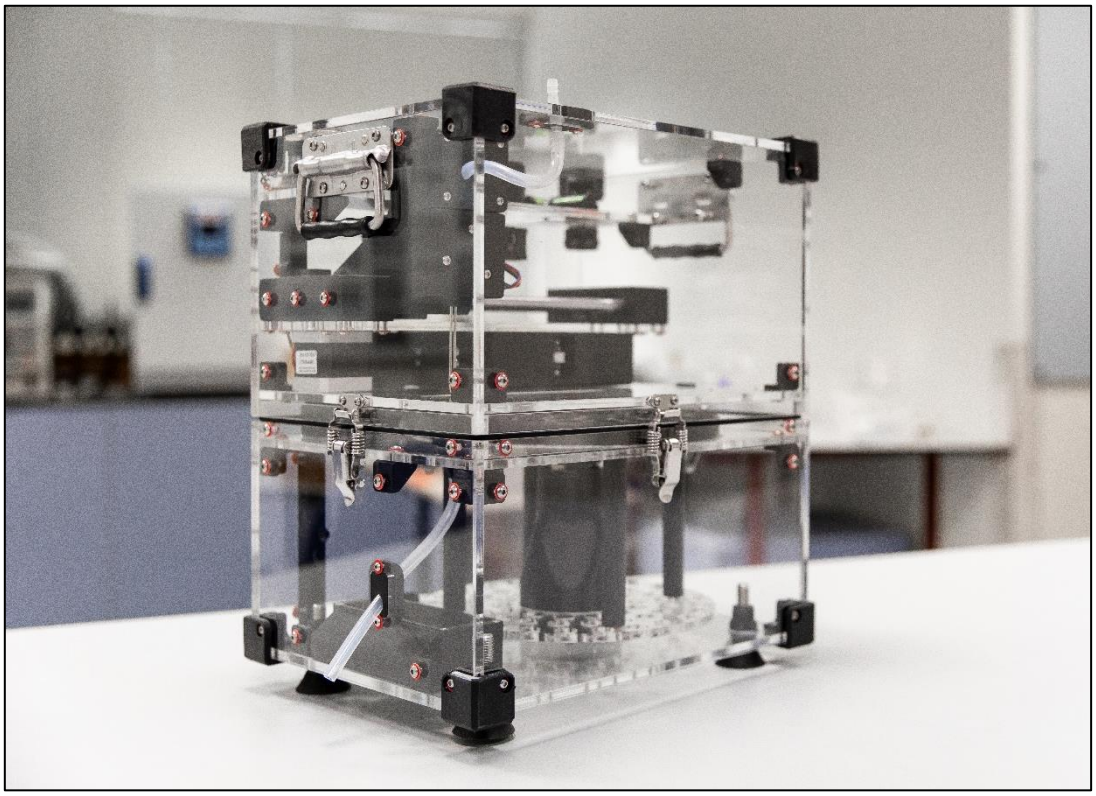
Description

The Syp automatic fluid sampler is a portable device that automatically collects fluid 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® PTFE0806 Inert Tube (ID 6mm x OD 8mm) 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[1]	0 to 65°C	±1.00°C	0.1°C
Humidity	0 to 100% RH	20 to 80% RH[2]	±3% RH	0.1% RH
Pressure	300 to 1100hPa	300 to 1100hPa[3]	±1.5hPa	1hPa
	Sensor: Bosch Sensortec BME280			
Pump power input	10 - 13V DC, 0.6A			
Pump speed	340 ml/minute			
Pump height	Min. 5 meters (direct vertical pull)			
WiFi	Type 802.11 b/g/n			
Clock accuracy	±3 minutes per year			
Adjustable feet range	Up to 30 mm			

[1] Best accuracy within 0 - 65°C
[2] When sensor is at 25°C
[3] When sensor is within 0 to 65°C

Carry bags

Specification	Detail
Dimensions (H x W x D, mm)	600 x 290 x 250 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 Foam padding