

SYP MARK III

Autonomous Water Sampler

58

SEALED VIALS

>12mo

BATTERY LIFE

3

SAMPLE MODES

65k hr

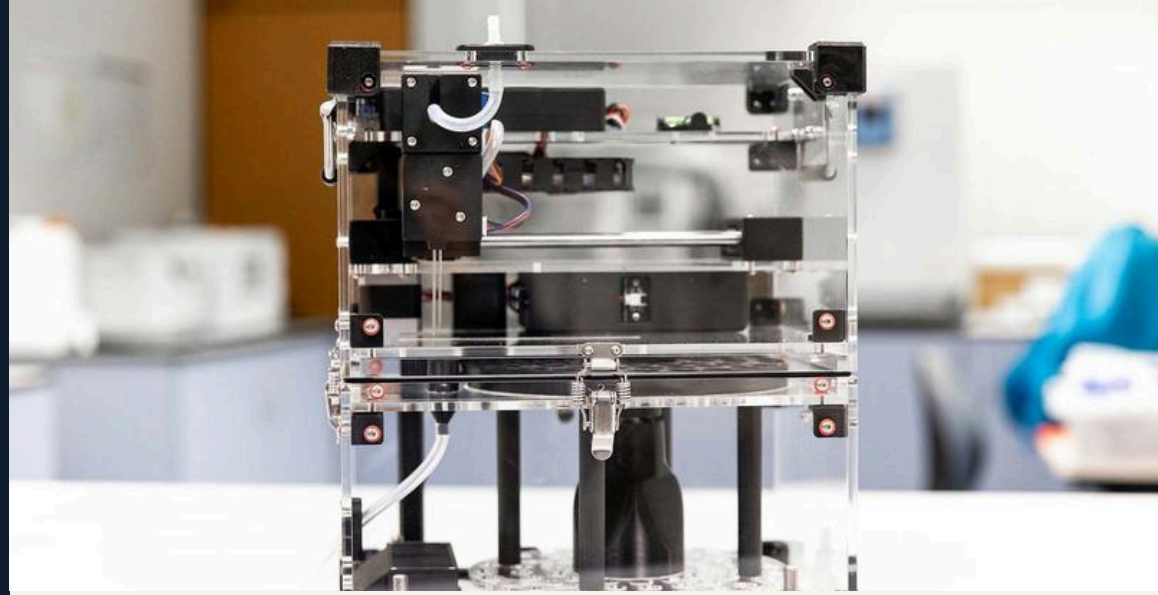
MAX INTERVAL

Wi-Fi

CONFIG & DATA

-10-50°C

OP. TEMP.



Leave the sampling to SYP.

Purpose-built for remote deployments – caves, springs, wetlands and beyond.
Deploy once, collect up to 58 samples unattended over weeks or months.

Science Advances · 2025

"Drip water was collected using a SYP (Waikato Scientific Instruments) autosampler..."

James et al.
doi:10.1126/sciadv.adw7661

DEPLOYED AT

University of Cambridge
UC Davis
Vanderbilt University
Oregon State University
Univ. of Florida · UNAM

SPECIFICATION

DETAIL

SPECIFICATION	DETAIL
Sample capacity	58 × 15 ml polypropylene vials with bungs
Sampling interval	1 to 65,000 hours (user-defined)
Battery life	>12 months at 1 sample/week
Battery type	8 Ah rechargeable LiPo, removable
Connectivity	Wi-Fi device-hosted access point
Operating temp.	-10 °C to +50 °C
Onboard sensors	Temperature · Humidity · Air pressure
Data export	CSV via Wi-Fi browser interface
Firmware	OTA updates via Wi-Fi (.SYP file)
Vial stoppers	Self-healing THERMOLAST® K TF5FMA
Construction	Water-resistant acrylic, conformal-coated PCB
Warranty	18 months from purchase

SAMPLING MODES

Gravity

Fluid drips by gravity into vials.
No pump – zero contamination risk.
Caves, rain gauges, spring seeps.

Pump

Peristaltic pump at precise intervals. Groundwater, surface water, low hydraulic head.

External

12V pulse from datalogger. Flow-proportional and event-based sampling on command.



Field sampling shouldn't require a field trip every two weeks.

THE PROBLEM WE SOLVED



Built for where science actually happens.

WHY SYP



Configure once. Deploy anywhere.

HOW IT WORKS



Ready to deploy, out of the box.

READY TO DEPLOY