

SIELC



ALLTESTA™
MINI-AUTOSAMPLER

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Introduction

The Alltesta™ Mini-Autosampler, developed by SIELC Technologies, is a cost-effective solution for automated liquid sample handling in various environments, including HPLC. Its compact design and customizable configurations make it ideal for space-limited areas and mobile instrumentation settings. Key features include small size, flexible configuration, and sample mixing capabilities.

Software options:



The autosampler is controlled by serial commands set. An open comprehensive protocol is provided for customers who want to develop their own control software.



Adapt the Alltesta™ Mini-Autosampler to your specific requirements. The design is flexible in two ways – a variety of hardware options, including valve configurations, tray designs, syringe volumes, needle length, vial type and volume; the software provides for the developer a full operational control of every module of the autosampler. Full software integration support is provided for qualified customers.



Unique Key Features



Built-In Shaking Feature:
Insure sample homogeneity with sample mixing before injection; or do sample extraction directly within the vial; or efficiently quench the sample with a quench reagent precisely delivered by the pump to the vial.



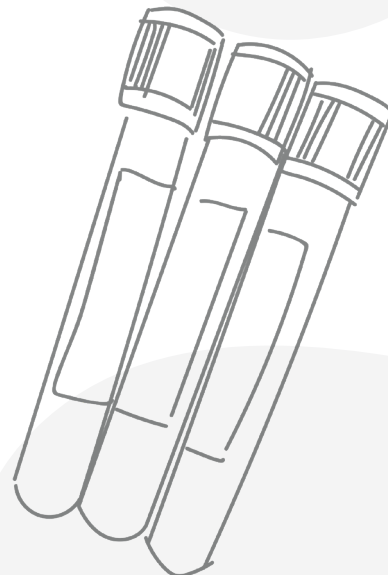
Direct Control:
Achieve seamless integration with your existing systems through serial commands, with a comprehensive command library provided, allowing you to easily manage and automate liquid sample handling to enhance your laboratory operations.



Compact Design:
Save valuable bench space without compromising performance. Can be used in compact mobile applications without adding too much weight.



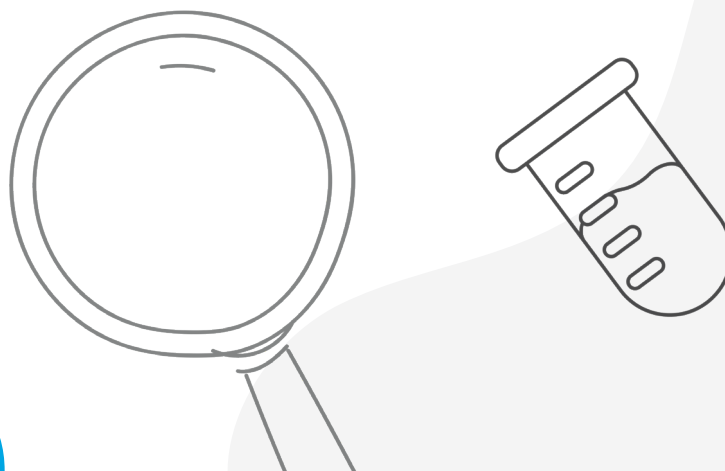
OEM Customization:
Adapt the Alltesta™ Mini-Autosampler to your specific system with options for custom shapes, colors, and vial sizes.



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Versatile Capabilities applicable to different applications. Some examples include:

- **Fraction collection:**
With a simple software modification, the Alltesta™ Mini-Autosampler can function as a fraction collector, enabling fractions to be individually collected in designated vials.
- **Reactor probe sampling:**
A simple software modification can quickly convert this small autosampler into a reactor probe sampler.
- **Consecutive feeding different samples to a detector:** many situations such spectrometers as NMR and MS need to be loaded periodically with a series of samples with minimum distance from the sample to a detector. The Alltesta autosampler due to its small size can be placed close to the measuring cell which minimises the sample spreading and measurements delay.
- **Sequential Fluorescence In Situ Hybridization (seqFISH+):** This autosampler application allows users to automate RNA fluorescent marker delivery to a Sequential Fluorescence in situ Hybridization (seqFISH+) system with access to multiple buffers to maintain accurate fluorescence and piping conditions.
- **Loading of fluidic devices:**
This autosampler application allows users to automate sample storage and delivery to a micro fluidic device (chip). An accurate sample volume that can be adjusted by the user can be delivered to a line connected to the chip.
- **Reagent addition and sampling dilution:**
Integrated reagent and sampling dilution and mixing capabilities allows to prepare samples for the next step in the analytical workflow.



Technical Specifications

	Alltesta™ Mini-Autosampler Standard configuration	Alltesta™ Mini-Autosampler Customizable configuration
Dimensions (WHL)	160 x 145 x 195 mm / 6.3 x 5.71 x 7.68 in	depends on configuration
Weight	3 kg / 6.6 lb	depends on configuration
Power	24 V	24 V
Plate	48 vials	<ul style="list-style-type: none"> • 48 vials • 96-well plate • 384-well plate
Pressure	Up to 5000 psi (345 bar)	depends on configuration
Syringe Capacity	4000 µL low-pressure stainless	<ul style="list-style-type: none"> • 120 µL high-pressure • 4000 µL low-pressure stainless • 4000 µL low-pressure metal free
Valve options	6x2	<ul style="list-style-type: none"> • 6x2 • 7x6 • 10x9
Needle	Short (36 mm)	<ul style="list-style-type: none"> • Short (36 mm) • Long (46 mm) • Capillary metal free (36 mm)
Volume Accuracy	0.1 µL	depends on configuration
Communication	RS232 Virtual COM port via USB	RS232 Virtual COM port via USB

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Applications areas:

The Alltesta™ Mini-Autosampler is a highly versatile instrument that can be used in different analytical areas. Some of the most common areas include:



Environmental Monitoring: Perfect for sampling of environmental probes, enabling reliable and accurate monitoring of water, air, and soil quality.



Food and Beverage Analysis: Efficiently processes samples for food safety, quality testing, and flavor profile analysis.



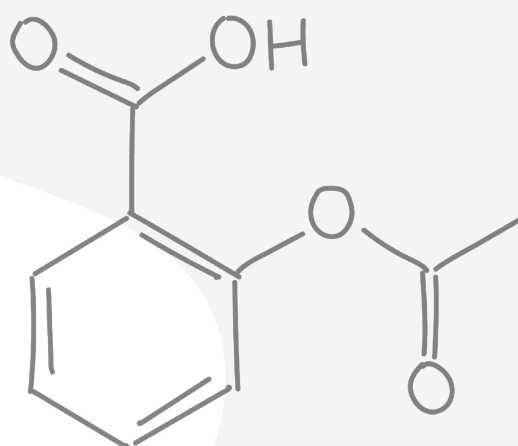
Pharmaceutical Testing: Provides precise sample handling for pharmaceutical analysis, improving accuracy and throughput in drug formulation, dissolution, and quality control testing.



Biotech and Research: Supports research labs by automating sample preparation and handling, reducing human error, and increasing the speed of experimental workflows.



Clinical and Diagnostic Laboratories: Ensures accurate and automated sample handling for diagnostic assays, improving lab productivity and sample throughput.



Call to Action

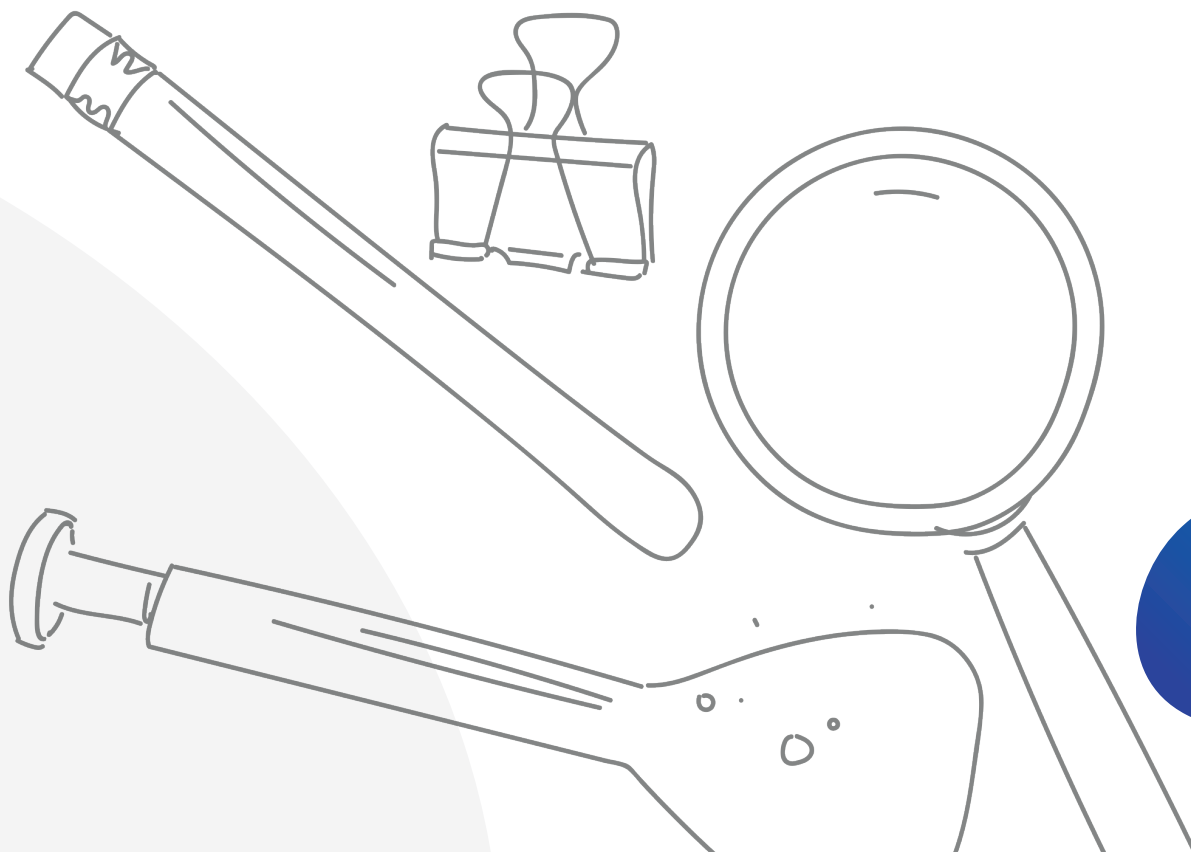
Unlock the potential of Alltesta Analyzers for your lab today:

- Contact us to place an order or ask questions.
- Request a free method development consultation.
- Schedule a demonstration to see our analyzers in action.
- Visit our website or scan the QR code below for more details.

Conclusion

With its customizable features, robust design, and versatile capabilities, the Alltesta™ Mini-Autosampler delivers exceptional value and performance for reliable automation solutions.

Learn more on our website or contact us for consultations and demonstrations.





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