

## Surveyor Autosampler Plus/Autosampler Plus Lite

The Thermo Scientific Surveyor™ Autosampler Plus platform supports high-throughput analysis while maximizing sampling capacity and minimizing bench space. The Surveyor Autosampler Plus is extremely versatile with multiple injection modes, an integrated column oven, and sample tray temperature control.

- High-throughput analysis
- 200 vials or 3 micro-well plates capacity with random sampling access
- Automated sample preparation
- Integrated column oven and tray temperature control
- Multiple injection modes

### High Throughput Analysis and Sample Capacity

Specifically designed for high throughput applications, the Surveyor Autosampler Plus has a sampling arm design that provides injection cycles lasting less than 30 seconds. This novel design minimizes excess movement and maximizes the number of injections in a given time.

The Surveyor Autosampler Plus accommodates 200 standard 1.8 mL sample vials or three 96 or 384 micro-well plates for a maximum capacity of 1152 samples. The integrated syringe flush and needle wash provide minimal carryover while still enabling high throughput applications.



### Automated Sample Preparation

The automated sample preparation feature allows a pretreatment routine to be performed by the autosampler before the sample is injected. The pretreatment routine can consist of multiple tasks, including transferring liquid between sample vials, from one of the four reservoir vials to a sample vial, mixing, and more. The built-in micro-robotics save time and effort in dilutions, derivatizations, and additions.

### Column Oven

The integrated column oven provides complete control of the column temperature for increased separation efficiency and reproducibility, with a range of 5–95 °C  $\pm$  0.5 °C selectable in 1 °C increments. (Only available with the Surveyor Autosampler Plus.)

### Sample Tray Temperature Control

Tray temperature control stabilizes temperatures, heats and cools samples, and minimizes the effects of ambient temperature fluctuations. (Only available with the Surveyor Autosampler Plus.)

## Multiple Injection Modes

The Surveyor Autosampler Plus has multiple injection modes providing the chromatographer with the flexibility to choose the best injection mode for their method.

- Full loop injection mode delivers a sample which is commensurate to the size of the sample loop.
- Partial loop injection mode enables the user to choose the exact amount of sample to be delivered.
- No waste injection mode preserves precious samples by enabling the user to inject 1  $\mu\text{L}$  from as little as 5  $\mu\text{L}$  of sample.

## ChromQuest™ Chromatography Data System

### Maximize productivity by connecting people, information, and instruments.

Controlling the entire family of Thermo Scientific LC and GC instruments, the multi-technique capabilities of ChromQuest software allow the user to collect and compare data in one consistent system. Sophisticated analytical tools facilitate high sample throughput and powerful data processing for liquid chromatography.

ChromQuest offers maximum flexibility and efficiency in setting up and maintaining the performance of chromatography instruments. ChromQuest provides data protection by ensuring data traceability and integrity with enhanced security features and electronic documentation.

ChromQuest maximizes laboratory efficiency with project management for information storage and transfer. It also accelerates data analysis and results generation using robust integration, flexible calibration routines, and advanced spectral analysis tools. ChromQuest is available in a variety of configurations ranging from single user/single instrument to multiple user/multiple instrument client/server systems.

## Certification and Qualification Services

Every module is tested at the factory before shipment to ensure that it meets its performance specifications. A Declaration of Conformity (DC) accompanies each module and documents test results. On-site field testing (optional) qualifies module and system performance.

## Specifications

### Vial Capacity

200 vials with tray temperature control  
Three 96 or 384 micro-well microtiter plates

### Variable Volume

#### Injection Precision

1.0% RSD at 5  $\mu\text{L}$  and higher

#### Minimum Sample Volume

1  $\mu\text{L}$  can be injected from a 5  $\mu\text{L}$  sample

#### Injection Volume

20  $\mu\text{L}$  loop standard, up to 1000  $\mu\text{L}$  injections with larger loops and syringe

### Sample Carryover

$\leq 0.1\%$ , 6 mL flush can be used for internal and external needle wash

### Needle Height

Programmable in 0.1 mm increments.  
Active vial bottom search selectable on/off

### Column Oven

5–95  $^{\circ}\text{C} \pm 0.5$   $^{\circ}\text{C}$  selectable in 1  $^{\circ}\text{C}$  increments

*Only available with the Surveyor Autosampler Plus*

### Tray Temperature Control

0–60  $^{\circ}\text{C} \pm 0.5$   $^{\circ}\text{C}$  selectable in 1  $^{\circ}\text{C}$  increments

*Only available with the Surveyor Autosampler Plus*

## Communications

### Remote Inputs

Pump Ready and Inject Hold

### Remote Outputs

Pump Stop, Autosampler Plus Ready, Inject, and Gradient Start

### 4 Timed Events

## Remote Controls

Ethernet interface for PC-based software control

## Sample Preparation

Capacity for four 15 mL reagent vials for flushing, washing, sample dilution, and/or reagents for sample derivatization

## Ambient Environment

10–40  $^{\circ}\text{C}$ , 5–95% relative humidity (non-condensing)

## Operating Temperature

10–40  $^{\circ}\text{C}$

## Dimensions

37 × 36 × 50 cm (H × W × D)

## Weight

30 kg

## Power Requirements

100/120/220/240 VAC nominal;  
550 VA, 50 to 60 Hz

## Product Certification

EMC

CE

TUV CUS

FCC (EMI)

## Ordering Information

Part Number	Description
SRVYR-ASP	Surveyor Autosampler Plus
SRVYR-ASLTP	Surveyor Autosampler Plus Lite
SRVYR-PDA5P	Surveyor PDA Plus Detector with 5 cm LightPipe™ flow cell
SRVYR-PDA1P	Surveyor PDA Plus Detector with 1 cm LightPipe flow cell
SRVYR-LPMPP	Surveyor LC Pump Plus
SRVYR-MPMP	Surveyor MS Pump Plus
SRVYR-UV5P	Surveyor UV/Vis Plus Detector with 5 cm LightPipe flow cell
SRVYR-UV1P	Surveyor UV/Vis Plus Detector with 1 cm standard flow cell
CHROM-64510	ChromQuest 5.0 Full Install
CSPEC-64210	ChromQuest 5.0 Spectral Analysis (one instrument)
25005-104630	Thermo Scientific Hypersil GOLD™ 100 × 4.6 mm, 5 $\mu\text{m}$ column included in Surveyor Bundle and used in system validation

©2007, 2008 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

**Africa** +43 1 333 5034 127  
**Australia** +61 2 8844 9500  
**Austria** +43 1 333 50340  
**Belgium** +32 2 482 30 30  
**Canada** +1 800 530 8447  
**China** +86 10 8419 3588

**Denmark** +45 70 23 62 60  
**Europe-Other** +43 1 333 5034 127  
**France** +33 1 60 92 48 00  
**Germany** +49 6103 408 1014  
**India** +91 22 6742 9434  
**Italy** +39 02 950 591

**Japan** +81 45 453 9100  
**Latin America** +1 608 276 5659  
**Middle East** +43 1 333 5034 127  
**Netherlands** +31 76 579 55 55  
**South Africa** +27 11 570 1840  
**Spain** +34 914 845 965

**Sweden/Norway/Finland**  
+46 8 556 468 00  
**Switzerland** +41 61 48784 00  
**UK** +44 1442 233555  
**USA** +1 800 532 4752  
[www.thermo.com](http://www.thermo.com)



Thermo Fisher Scientific,  
San Jose, CA USA is ISO Certified.

PS62803\_E 07/08M

**Thermo**  
SCIENTIFIC