



Agilent 7510-AS Automated NMR Sample Changer

Data Sheet

Key Benefits

- **Versatile**—Compatible with all standard NMR sample tubes from 1–10 mm in diameter with lengths up to 9 inches, and certain J-Young tubes up to 7 inches in length. Random access allows you to choose any sample in any order.
- **User Friendly**—Seamless integration with VnmrJ software makes autosampler operation both simple and intuitive.
- **Powerful**—Short cycle time assures high throughput for unattended and multi-user walk-up operations.
- **Reliable**—Nickel-plated aluminum construction and Rulon bearings ensure a long life essentially free of maintenance.
- **Advanced Hardware**—Electronically controlled pneumatics actuation. Positive stops prevent over rotation; optical encoders prevent under rotation.



Introduction

The Agilent 7510-AS NMR autosampler for Agilent and Oxford magnets improves productivity and simplifies sample handling in your NMR laboratory. Each removable carrier holds up to 12 samples and supports random access. Load one carrier while running another. It is everything you expect in an autosampler: fast, smooth, and reliable operation that integrates with and simplifies your workflow without increasing maintenance. It is pneumatically-actuated and uses an optical encoder system to verify position while providing feedback to the controller.

NMR system	DD2, 400-MR DD2, VNMRS, and 400-MR NMR systems
VnmrJ	VnmrJ 3.0 or newer
Computer	Dell 755, T3400, T3500 or HP Z400
OS	RedHat WS 5.1 for 755, 5.3 for T3400 and T3500, and 6.1 for HP Z400



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Maintenance

The 7510-AS requires little routine maintenance. There are no user serviceable parts in the system. It is designed to operate without adjustment.

7510-AS Safety Certification

The 7510-AS is CE compliant.

This includes testing to the following specifications:

- EN61326-1 (EMC Requirements, Part 1: General Requirements)
- EN61326-2-1 (EMC Unprotected Applications)
- FCC 47CFR 15B c1A (Unintentional Radiators, Class A)

Operating Conditions

Recommended operating temperature	18 °C to 25 °C
Storage temperature	-25 °C to 55 °C
Humidity (operating and storage)	20 to 80 % relative humidity, non-condensing
Altitude	Up to 3000 m
Pneumatics	Clean dry air (CDA) or nitrogen 448–689.5 kpa (65–100 psig)
Weight	Driver module = 2.2 kg (4.8 lb)
	Carrier (unloaded) = 2.8 kg (6.1 lb)
Rating	+12 Vdc, 20–40 VA max

Ordering Information

G5138A – 7510-AS NMR Autosampler	
Option 1	Includes a 6 meter cable
Option 2	Includes an 18 meter cable (Typically used for NMR systems ≥ 800 MHz)
Accessories	
9100085800 (for 400-MR)	Automation Upgrade Kit for existing 400-MR or VNMS DD2 Systems ONLY
9100134000 (for VNMS DD2)	
192273200	Additional 12-Sample Holder for the 7510-AS

www.agilent.com/chem/nmr

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