

Introducing the **NMReady-flow**

BENCHTOP NMR SPECTROMETER

Why NMR spectroscopy?

NMR spectroscopy is a quick, linear, non-destructive, inherently quantitative technique that offers chemically specific information about all molecular species present in a solution at any particular time.

Why benchtop NMR?

Although lower resolution than high-field NMR, benchtop NMR spectrometers are modern, compact, affordable and low maintenance instruments that can be easily connected for occasional or dedicated online detection.

Which benchtop NMR?

Either the NMReady-60e or the NMReady-60Pro can be easily paired with the flow accessory. Choose the spectrometer model based on which nuclei you wish to monitor (e.g., ¹H, ⁷Li, ¹¹B, ¹⁹F, ³¹P etc)

FLOW CELL

Why a Flow Cell?

It can be used for dedicated online measurements or easily exchanged with standard 5mm NMR tubes.

The flow cell allows the user to acquire data with the standard 4.8mm ID without difficulty or additional sample preparation. This generates spectra with good SNR in a timely manner.

Easy to Introduce & Use

The cell spans the length of the magnet, ensuring that if any leaks do happen, they will not happen within the NMR spectrometer: minimising any maintenance requirements.

Optional Modes

Data can be acquired efficiently with a good signal-to-noise ratio in either stopped-flow or continuous flow modes.

OPEN SOFTWARE INTERFACE

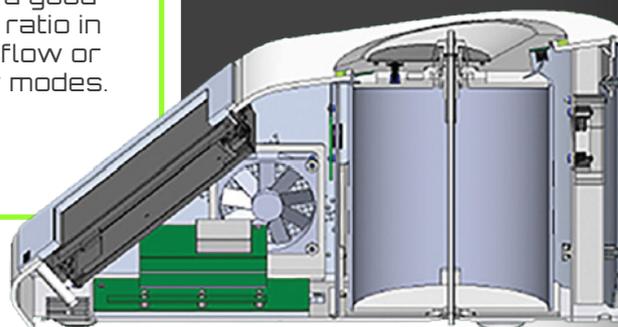
Simple Acquisition Initiation

NMReady software was designed to give a variety of applications access to core functionality.

Onboard data acquisition of the newly accessible NMReady API, allows developers to tap into the functionality of the 60 MHz spectrometer and create applications.

Simple Data Processing

NMR spectra can be integrated into your workflow directly, with little or no calibration; to facilitate the optimisation of a reaction, identification of by-products & the ability to determine reaction kinetics with minimal data processing.





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TECHNICAL SPECIFICATIONS

Flow Cell

| | |
|-------------------------|----------------------------|
| Configuration: | Bottom-to-top (B2T) |
| Material: | Borosilicate |
| Internal Diameter (ID): | 4.8 mm |
| Outer Diameter (OD): | 5.0 mm |
| Flow Mode: | Continuous or Stopped flow |
| Flow Rate: | 0.1 - 4.0 mL/min |



APPLICATION PROGRAMMING INTERFACE

API functionality: Setup/launch/monitor/examine experiments, instrument maintenance

Supported interfaces: Microsoft .NET & JSON

CONNECTIVITY

The NMRReady is a modern instrument and can be easily integrated through Ethernet and Wi-Fi connections.

MAIN BENEFITS

- ▶ **Understand & Optimise** chemical reactions in **real time**
- ▶ **Improve** reaction safety and yield
- ▶ **Automate** repeated synthesis

