

# 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

NMReady-60PRO

NMReady-60e



\*technical specifications subject to change without notification

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**NMReady-flow**



FOR  
**ONLINE DETECTION**  
by **BENCHTOP NMR**

# BENCHTOP NMR SPECTROMETER

for real-time, quantitative reaction monitoring

## 1 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 solution at a particular time.

## 2 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.



## 3 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.,  $^1\text{H}$ ,  $^7\text{Li}$ ,  $^{11}\text{B}$ ,  $^{19}\text{F}$ ,  $^{31}\text{P}$ , etc.). Please inquire for more information.

# FLOW CELL

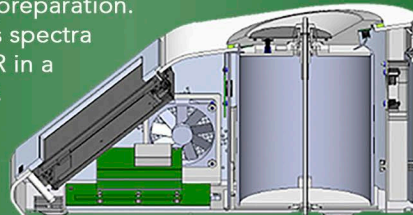
for fast and easy data acquisition

## 1 Why a flow cell?

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 4.8 mm ID without difficulty or additional sample preparation.

This generates spectra with good SNR in a timely manner.



## 2 Easy to introduce & Use

The flow cell has been specially designed to fit into any NMReady without probe modifications, leaving it simple to introduce to the NMR and easy to use.

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



## 3 Optional Modes

Data can be acquired efficiently with a good signal-to-noise ratio in either stopped-flow or continuous flow modes with adjustable flow rates (0.5 - 4 mL/min).

# OPEN SOFTWARE INTERFACE

for easy integration into any laboratory

## 1 Simple Acquisition Initiation

NMReady software was designed from the ground up to give a variety of applications access to the core functionality.

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



## 2 Simple Data Processing

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

Automated processing can be performed automatically on the API or with 3<sup>rd</sup> party software.

## 3 Connectivity

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