

WaveGuide Formu_la™ Product Specification

		BioPharma, Industrial, Food	GMP/ 21 CFR Part 11	R&D
Operating Frequency	21 MHz (0.5 T field)	✓	✓	✓
Probe Size (d)	3mm	✓	✓	✓
Probe Deadtime	10 μs for 3mm probe	✓	✓	✓
P90 3mm probe	<25 μs	✓	✓	✓
Data sampling rate	125 kHz/ 14 bit	✓	✓	✓
Data point capacity	>14 million	✓	✓	✓
RF power	100 milliwatts	✓	✓	✓
Available pulse sequences	FID, T2 CPMG/Hahn Echo, T1 inversion recovery or T1 saturation recovery with FID or CPMG readout	✓	✓	✓
System Requirements Footprint	278mm x 128mm x 74mm	✓	✓	✓
Weight	1.4 kg	✓	✓	✓
Operating Temperature	10°C to 40°C	✓	✓	✓
Connectivity	WiFi, LTE & 4G Enabled	Optional	X	Optional
Printer Capability	WaveGuide Thermal desktop printer	Optional	✓	Optional

The WaveGuide Formu_la™ is a low resolution, high performance portable, TD-NMR system designed for the analysis of substrates based on relaxation measurements. The system includes a high-performance CMOS transmitter, receiver, and digital spectrometer, a 21MHz (0.5T) permanent magnet, and a choice of interchangeable cartridges.

The WaveGuideFormu_la™ NMR is portable and battery operated due to the very low power demand of the system. There is full coherence between transmitter, receiver and digital circuitry with a full quadrature detection for optimal sensitivity and artifact suppression.

The WaveGuide Formu_la™ NMR has tight temperature tracking and novel drift compensation for the 0.5T permanent magnet.

The WaveGuide Formu_la™ NMR system comes with a customized software package that proves a set of unique libraries that are fully integrated with the customer needs. All standard TD-NMR pulse sequences are supported, and customized new sequences can be programmed into the system as well.

The WaveGuide Formu_la™ NMR system comes with different configurations to meet customers' needs.