

# WaveGuide Formu $\mu$ la™ Product Specification

<b>Operating Frequency</b>	21 MHz (0.5 T field)
<b>Probe Size (d)</b>	3mm
<b>Probe Deadtime</b>	10 $\mu$ s for 3mm probe
<b>P90 3mm probe</b>	<25 $\mu$ s
<b>Data sampling rate</b>	125 kHz/14 bit
<b>Data point capacity</b>	>14 million
<b>RF power</b>	100 milliwatts
<b>Available pulse sequences</b>	FID, CPMG, T1 inversion recovery, T1 saturation recovery, FID, Hahn Echo
<b>System Requirements Footprint</b>	278mm x 128mm x 74mm
<b>Weight</b>	1.4 kg
<b>Operating Temperature</b>	10°C to 40°C
<b>Connectivity</b>	WiFi & LTE enabled

The WaveGuide Formu $\mu$ 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, a digital spectrometer, a 21MHz (0.5T) permanent magnet, and a choice of interchangeable cartridges.

The WaveGuide Formu $\mu$ 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 $\mu$ la™ NMR has tight temperature tracking and novel drift compensation for the 0.5T permanent magnet.

The WaveGuide Formu $\mu$ la™ NMR system can be purchased with a customized software package that provides 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.