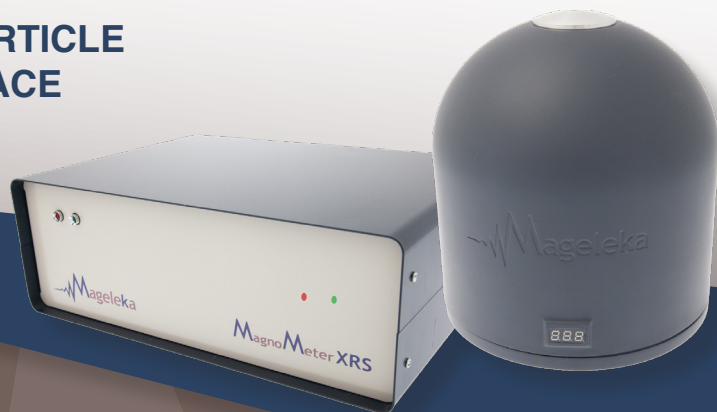


MagneMeter XRS

A POWERFUL ADVANCEMENT IN PARTICLE CHARACTERIZATION AND SURFACE ANALYSIS OF DISPERSIONS



Innovative and versatile



Separate magnet/probe assembly pod
Easily exchangeable for different nuclei (^7Li , ^{19}F , ^{31}P), and features remote operation for use in hazardous environments



Highly-customizable pulse sequencing
Phase cycling, composite pulses, two channel RF, and 3D shaped gradients



Uses regular length NMR tubes
Four diameters available, from 2 mm (highest resolution) to 10 mm (lowest resolution)

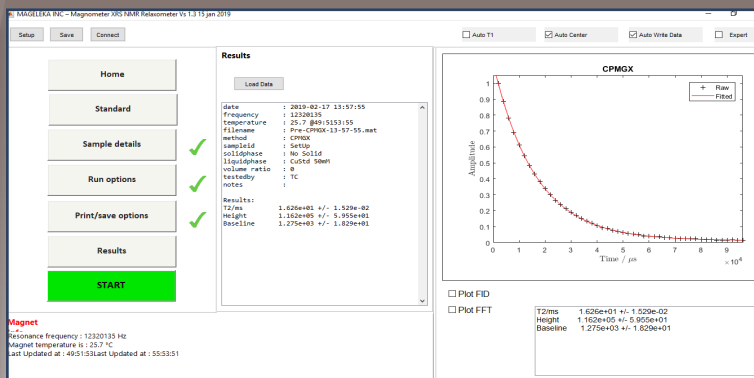
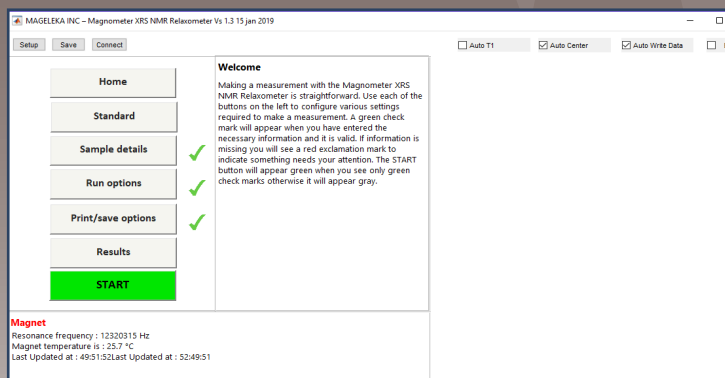


Simple & intuitive software
Easy to use and upgrade, with dedicated dual-core ARM9 processor running Debian

Unparalleled Analysis Unmatched Functionality & Performance

All industrially relevant concentrations

- Solid-liquid ratio
- Nanoparticle kinetic processes
- Highly paramagnetic species
- Polymers - solutions and melts
- Surfactant and polymer absorption
- Wetted surface area



MAGELEKA, Inc.

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Worldwide

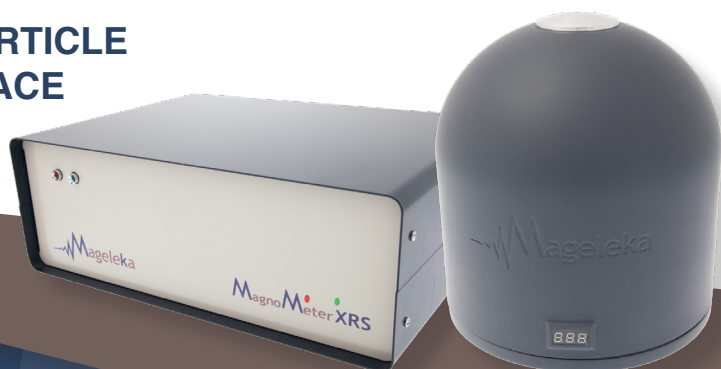
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Specifications & Advantages

MagnoPod magnet/sample probe is a separate unit

- Remote operation for use in hazardous and sensitive environments
- Field strength range: 10 MHz - 15 MHz for increased sensitivity
- Flow-through modification*

Highly-customizable, user-selectable pulse sequencing

- Phase cycling, composite pulses, two-channel RF and 3D shaped gradients
- Robust self-diffusion measurement* from water to viscous liquids: 10^{-9} - 10^{-13} m²s⁻¹
- Droplet sizing analysis*
- Polymer characterization in solution and melts* (through hydrodynamic radius)
- 1D, 2D and 3D imaging*
- Customizable by software pulse programming interface*

Powerful MagnoSoft software

- Based on a dedicated dual-core ARM9 processor running Debian
- Easily upgradeable and flexible by direct Ethernet access

Programmable temperature control

- Optional upgrade to a wider continuous range of 10 °C – 80 °C

MagnoPod is easily exchangeable

- Different nuclei (⁷Li, ¹⁹F, ³¹P) use convenient separate pods

Shorter RF pulses

- 90° pulse of < 5 μs
- Measurement of solid materials*
- Useful for highly paramagnetic samples
- Direct measure of the solid/liquid ratio

Works with four different size OD regular NMR tubes

- 2 mm (highest resolution), 4 mm (standard resolution), 8 mm (lower resolution) and 10 mm (lowest resolution)
- Resolution: 200 ppm (or better) with 4 mm tube**

Access to customized pulse sequence library and analysis software

Access to expert advice on all aspects of NMR and its applications

* In development

** Depending on choice of magnet



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