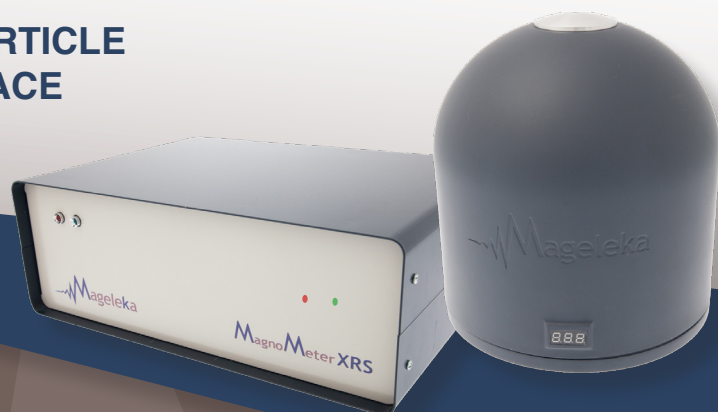


# MagnoMeter XRS

A POWERFUL ADVANCEMENT IN PARTICLE  
CHARACTERIZATION AND SURFACE  
ANALYSIS OF DISPERSIONS



## Innovative and versatile



**Separate magnet/probe assembly pod**  
Easily exchangeable for different nuclei ( $^7\text{Li}$ ,  $^{19}\text{F}$ ,  $^{31}\text{P}$ ), 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)

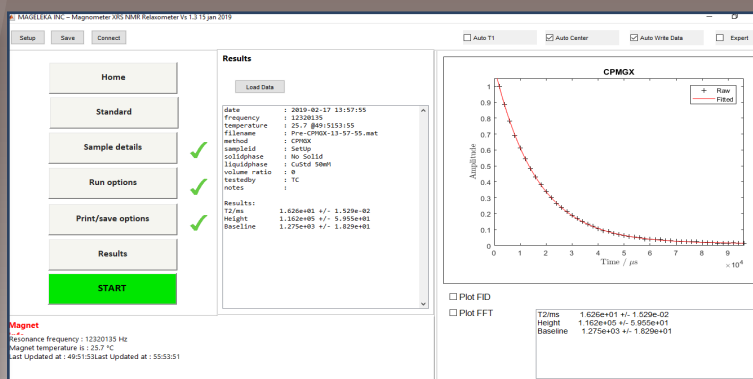
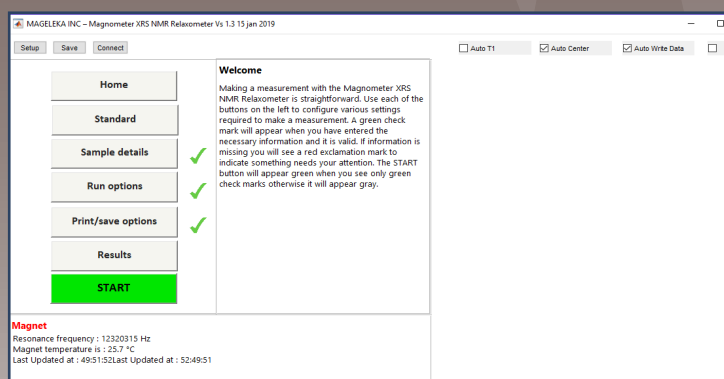


**Simple & intuitive software**  
Easy to use and upgrade, with dedicated dual-core ARM9 processor running Debian

## Unparalleled Analysis Unmatched Functionality & Performance

### All industrially relevant concentrations

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



[www.mageleka.com](http://www.mageleka.com)



ES France - Département Bio-tests & Industries  
127 rue de Buzenval BP 26 - 92380 Garches



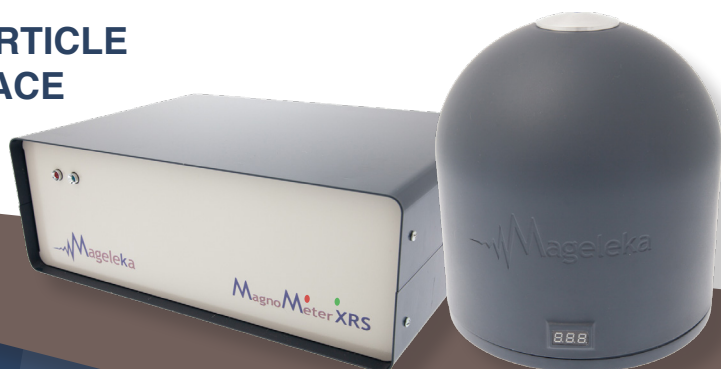
Tél. 01 47 95 99 90  
Fax. 01 47 01 16 22



e-mail : [bio@es-france.com](mailto:bio@es-france.com)  
Site Web : [www.es-france.com](http://www.es-france.com)

# MagnoMeter XRS

A POWERFUL ADVANCEMENT IN PARTICLE  
CHARACTERIZATION AND SURFACE  
ANALYSIS OF DISPERSIONS



## 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:  $10^{-9}$  -  $10^{-13}$  m<sup>2</sup>s<sup>-1</sup>
- 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 (<sup>7</sup>Li, <sup>19</sup>F, <sup>31</sup>P) 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



[www.mageleka.com](http://www.mageleka.com)



ES France - Département Bio-tests & Industries  
127 rue de Buzenval BP 26 - 92380 Garches



Tél. 01 47 95 99 90  
Fax. 01 47 01 16 22



e-mail : [bio@es-france.com](mailto:bio@es-france.com)  
Site Web : [www.es-france.com](http://www.es-france.com)