

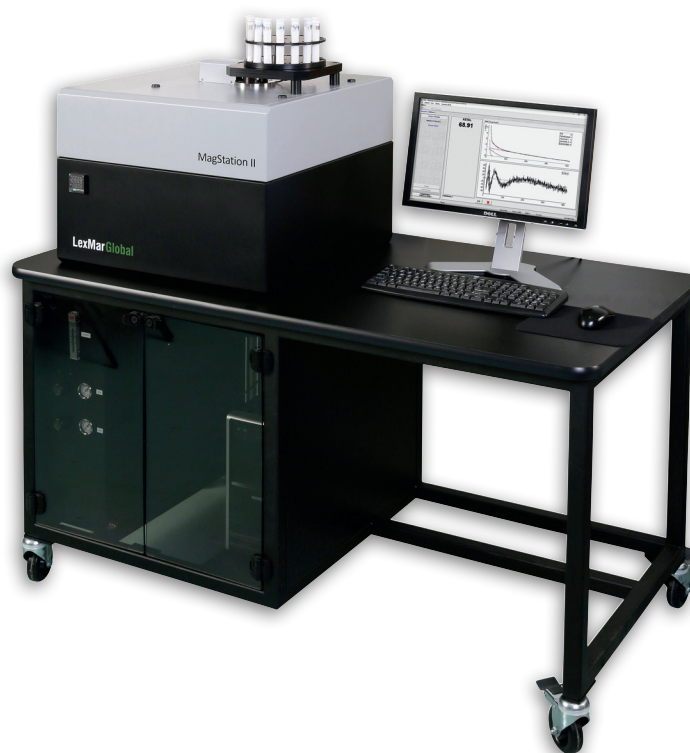
# NMR MEASUREMENT SOLUTIONS

## BENEFITS

- Optimized polymer property accuracy
- Stable dependable calibrations
- Fast non-destructive analysis
- Large sample volume to yield representative results

## ADVANTAGES

- Active sample temperature control
- Compatible with MagModule™ II on-line solutions
- Fully integrated chemometrics
- On-site operator training, commissioning and start-up



## MagStation II

### NMR analyzer for polymer research and quality control

The MagStation™ II Nuclear Magnetic Resonance (NMR) provides dependable, rapid analysis of polymer properties with no sample preparation required. Automated sample temperature control and sampling enable improved operator independent analysis. The equipment is engineered to analyze powders, pellets, slurries, or liquids over a wide range of temperatures as required. Each sample being tested can be analyzed for multiple polymer properties simultaneously (chemical, physical, mechanical)

with all results automatically transferred to the plant Laboratory Information Management System (LIMS).

The MagStation II software provides efficient simple functionality for plant users and advanced capability for researchers and managers. All NMR laboratory methods are compatible with LexMar Global on-line process solutions including the MagModule II.

**LexMar Global**  
Analyze with Integrity®

## TRUSTED QUALITY

Leading polymer suppliers understand the importance of quality control to ensure customer satisfaction and profitability. The MagStation II is a critical part of the quality standard for the polymer industry. Lab managers and staff trust the performance and the reliability of the technology provided by LexMar Global. The analyzer provides the lab staff with timely analytical data needed to ensure smooth product certification and release to key customers. Managers know they can trust the MagStation II to confidently avoid costly prime rejects and damaging customer quality complaints.

## TECHNICAL SPECIFICATIONS

- Sample volume 20 ml
- Measurement temperature ambient to 85°C standard (wider ranges available)
- AutoSampler carousel—16-station carousel provides automatic measuring
- Adjustable sample heat time in one second intervals
- Pulse sequences include standard single- and multi-pulse sequences; customized phase cycling and pulse schemes are available
- Receiver gain adjustable over 55 dB range in 1 dB steps
- Digital frequency synthesizer for RF pulse generation resolution at 1 Ms/s: 15 bit, at 200 Ks/s: 16 bit event resolution: 33 ns

### MECHANICAL

- Overall dimensions 60"W x 30"L x 57"H (152 x 76 x 140 cm)

### ENVIRONMENTAL

- Certified for use in 18°C (65°F) to +30°C (86°F)

### UTILITIES

- 110/220 VAC 50/60 Hz 10/5 A
- Instrument air dry and filtered, 80 psig minimum (5.5 barg), 150 SCFH (4250 l/hr)

### COMMUNICATION/OUTPUT

- Direct link to plant LIMS
- Integrated System Controller
- LexMar Global's proprietary A/Ztec™ viewer database software
- Remote access software
- Automatic and manual curve fitting of the free induction decay (FID) is included.
- Outputs to third party software for chemometric analysis are available.