



MagStation II

IMR analyzer for polymer research
and quality control

The MagStation™ II Industrial Magnetic Resonance (IMR) provides dependable, rapid analysis of polymer properties with no sample preparation required. Typical applications include XS, C2, FM, and Charpy (PP), as well as density (PE). Automated sample temperature control and sampling improves operator independence.

The equipment is engineered to analyze powders, pellets, slurries, or liquids over a wide range of temperatures as required. Each sample can be tested 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 online process solutions, including the MagModule™ II.

BENEFITS

- Fast non-destructive analysis
- Improved plant efficiency
- Decreased off-spec production
- Elimination of hazardous chemicals

ADVANTAGES

- Compatible with MagModule™ II online solutions
- Optimized polymer property accuracy
- Active sample temperature control
- Stable dependable calibrations
- Fully integrated chemometrics
- Large sample volume to yield representative results
- On-site operator training, commissioning, and start-up
- Worldwide support

TECHNICAL SPECIFICATIONS

- Sample volume: 20 ml
- Standard measurement temperature range from 30°C to 85°C with ± 0.1 °C precision (wider ranges available)
- Auto Sampler 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
- Adjustable receiver gain up to 70dB

MECHANICAL

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

ENVIRONMENTAL

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

UTILITIES

- Electrical: 120/230 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) included
- Outputs to third party software for chemometric analysis available

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.