NMR
MEASUREMENT
SOLUTIONS

BENEFITS

- Substantial return on investment
- Improved plant efficiency
- Lower off-spec production
- Reduced inventory requirement
- Improved plant reliability
- Empowered plant operators

ADVANTAGES

- Real-time continuous measurements
- Operator independent
- Non-destructive analysis
- Compatible with laboratory MagStation™ II products
- Worldwide support

MagModule II

Industrial process NMR analyzer

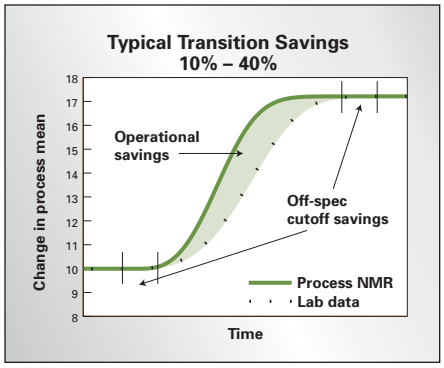
The MagModule™ II process analyzer automatically measures multiple chemical and physical properties of polymer materials. This proven technology is available for installation in both hazardous and non-hazardous locations. Rapid, non-destructive analyses of powders, pellets or slurries are provided continuously with results directly communicated to the plant Distributed Control System (DCS). High performance data analysis methodology provides reliable measurement of process parameters for Advanced Process Control (APC).

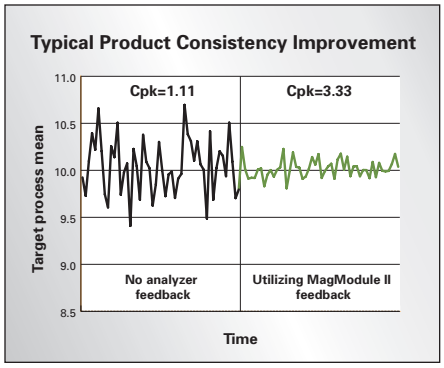
The MagModule II is a complete solution designed for harsh industrial conditions, and includes sample extraction, sample handling, data analysis, software control and plant interface. International hazardous area safety certifications provide customers with the confidence for implementation and long-term operational safety of LexMar Global industrial NMR products.

LexMar Global
Analyze with Integrity®

ASSET OPTIMIZATION

Leading polymer manufacturing companies require process control automation technologies to optimize plant performance. The MagModule II system has proven to be an essential part of optimization strategies. A rapid return on investment is evident in virtually all process technologies and plant capacities.





TECHNICAL SPECIFICATIONS

MECHANICAL

- Cabinet: 60" W x 32" D x 73" H (152 cm x 81 cm x 185 cm) 1000 lbs (450 kg)
- Extraction system: 45" W x 35" D x 58" H (114 cm x 89 cm x 147 cm) 400 lbs (180 kg)
- Piping and tubing is 304/316 stainless steel. Swagelok fittings are used on all external tubing connections
- Instrument air supply (½" 150 lbs RF flange)
- Nitrogen supply (1" 150 lbs RF flange)
- Sample inlet (1" 150 lbs RF flange)
- Sample outlet (1" 150 lbs RF flange)
- Vent outlet (1" 150 lbs RF flange)
- Sample/gas return to process (1.5" 150 lbs RF flange)

ENVIRONMENTAL

- ATEX: Ⓔx II 3 G
- IECEx: Ex db eb ib pxb IIB Gc T4
- Designed for Class I Div2 Grps C,D
- Certified for use in -20°C (-4°F) to +50°C (122°F)
- Cabinet is NEMA 4X

UTILITIES

- 230 VAC, Single Phase, 50/60 Hz, 18 A or 120 VAC, Single Phase, 60 Hz, 28 A
- Instrument air: 80 - 100 psig (5.5 - 6.9 barg)
- Nitrogen: 80 psig (5.5 barg)
- Fiberoptic cable (4 fibers) to field cabinet (wire connection optional)
- Purge safety alarm contact to DCS (optional)

COMMUNICATION/OUTPUT

- Direct link to plant DCS
- Integrated System Controller
- LexMar Global's proprietary A/Ztec™ control and viewer database software suite
- Secure password protected remote access software

LexMar Global

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