



the minispec mq-one

● TD-NMR Analyzers

The best minispec TD-NMR just got better. The mq-one offers unparalleled performance in an all-in-one design for dedicated industrial quality control applications.

- Compact design, smaller footprint
- Easy to setup, easy to use
- Multilingual minispec Plus software
- Fast, non-destructive analysis in seconds
- Ready-to-go calibration standards

Dedicated minispec mq-one analyzers:

- Spin Finish Analyzer
- Solid Fat Content (SFC) Analyzer
- Seed and Seed XL Analyzer
- Hydrogen Analyzer
- Total Fat Analyzer
- Polymer Analyzer

The mq-one Solution

The new mq-one is the newest addition to the minispec mq series of Time-Domain (TD-)NMR analyzers. The award winning mq series covers a wide range of applications and offers expansion capabilities for both routine QC and R&D.

The mq-one is not just a bench-top system, it is a dedicated, off-the-shelf, complete solution for your quality control applications. With easy installation, comprehensive calibration and calibration transfer standards, the mq-one is ready to use in minutes, while the multilingual minispec Plus software guarantees an intuitive and traceable workflow.

TD-NMR: The Method of Choice

The mq-one utilizes Time-Domain Nuclear Magnetic Resonance (TD-NMR) spectroscopy, technically similar to the FT-NMR and MRI technologies. NMR signals are generated from the whole sample, not just the surface. The TD-NMR technique does not require any solvents and with minimal sample preparation you can start your nondestructive analysis, which typically takes only few seconds.



World-wide accepted Calibration and Calibration Transfer standards for various applications

Ready-to-go

The minispec mq-one analyzers come complete, ready-to-install, with calibration standards and traceable multi-language software. The installation instructions can not get easier than this: place your mq-one on the lab bench, connect only two cables: the Ethernet cable to your PC and the power cord, switch it on and following warm-up your mq-one is operational.

Better for Your Laboratory

Nowadays, laboratory space is a premium. The minispec mq-one has a smaller footprint compared to its previous model, therefore will not take a lot of your valuable laboratory bench space. Moreover, the mq-one is a quiet runner: with no external fans and less than 40 dB(A) of acoustic noise during operation, it will help keep your laboratory a quiet place to work.



Sample preparation and precise measurement with the mq-one made easy

Performance You Can Rely On

Precise and long-term stable results can only be obtained with an optimal system layout. The mq-one with its all-in-one design perfectly matches these requirements. Both long-term and short-term measurement stabilities for the application of interest have been improved further. The system's internal temperature is kept at a constant higher than room temperature (typically but not limited to 40 °C) to within a 1/100 of a degree Celsius to guarantee optimal performance in 24/7 operation.

Plug-and-play NMR Probes

As a part of the minispec mq series, the mq-one offers Bruker's proven plug-and-play NMR probe concept with automatic probe recognition. Easy, tool-free exchange for cleaning becomes a matter of seconds.

minispec Plus Software

Since the introduction of the mq-series, the requirements for today's industrial Quality Control (QC) have evolved. In order to provide solutions for today's challenges, Bruker now offers the 21 CFR part 11 compliant minispec Plus software for the mq-one analyzers. The minispec Plus combines multilingual support, user administration, ease of use and an intuitive work-flow for both calibration and daily measurements.

Dedicated mq-one Analyzers

All mq-one Analyzers come complete and feature the multilingual, traceable minispec Plus software suite.

mq-one Spin Finish Analyzer

- Precise Spin Finish determination on man-made fibers
- Weightless and weighing methods
- Calibration Transfer & Validation samples

mq-one SFC Analyzer

- Solid Fat Content on fat compositions and chocolate
- Bruker's unique SFC calibration sample set
- All international methods supported

mq-one Hydrogen Analyzer

- QC method for jet and aviation fuels
- Handy calibration using regular chemicals
- ASTM methods supported

mq-one Seed and Seed XL Analyzer

- Precise oil and moisture determination in seeds, nuts and residues
- International methods supported

mq-one Total Fat Analyzer

- Precise determination of fat/oil and moisture in food & feed
- Straightforward calibration
- Tailored EasyFill™ plastic sample tubes
- Replaces wet chemistry

mq-one Polymer Analyzer

- Precise Xylene-soluble content determination
- Density of Polyethylene determination made easy
- Handy calibration with reference samples
- Replaces wet chemistry

