



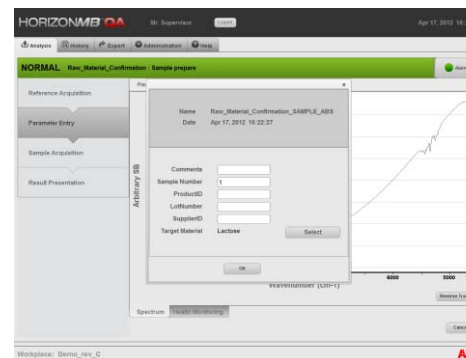
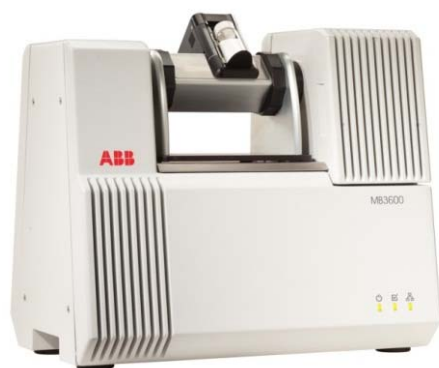
ABB – BU Measurement Products – PMU Québec

MB3600-CH40 Solid Chemicals Analyzer A Robust Analytical Solution For Routine Measurements

MB3600-CH40 - Overview

A high performance analyzer combined with a simple sampling interface

- Traditional QA/QC analytical methods typically require some fractionation, titration, drying, weighing or separation steps to be executed by qualified analytical personnel for assay determination. Those analytical methods are slow, expensive and complex. In contrast, today's chemical companies must be able to check rapidly and regularly chemical specifications of their different product grades to minimise reworks, downgrading and quality give-aways.
- The MB3600-40 is a new solid chemicals analyzer designed to perform fast and accurate determination of key physico-chemical attributes of raw materials, in-process or finished products in solid form. It is a simple, reliable and cost-efficient alternative to compendial laboratory methods. The package is based on ABB's latest generation of high performance FT-NIR spectrometers, the MB3600 series.
- The MB3600-CH40 includes the modern software modules Horizon FTIR (spectra acquisition and analysis), Horizon QA (intuitive user interface) and Horizon Quantify (chemometrics package).
- The solution also features the ACC101 "Powder Samplr" accessory, that allows to perform fast analysis of solid samples in disposable scintillation vials within a few seconds.



MB3600-CH40 - Overview

Scope of supply

- FT-NIR MB3600 spectrometer with TE-cooled InGaAs2.6 detector
- Software package: Horizon MB FTIR, Horizon MB Quantify, Horizon QA.
- ACC101 rotating powder sampling accessory for analysis of fine powders (Includes removable sample rotation device, PTFE reference vial and 500 scintillation 20ml vials)
- 3-year warranty on the complete hardware

Features

- Bench top FT-NIR analyzer for powders, pellets and agrochemicals
- Designed for laboratory QA/QC, at-line process monitoring and verification
- Rotating powder and solids sampling accessory
- Non-hygroscopic ZnSe optics
- Innovative metrology design
- Rugged aluminum casting
- 3-year warranty on complete hardware

Benefits:

- Enables multi-property analysis for solid chemicals, in particular agrochemicals and fertilizers (composition information and physical properties) with low cost
- Extensive experience and installed base
- Rugged and simple software interface
- State of the art analytical performance
- Low cost of ownership (10 years maintenance-free)
- Minimal footprint
- Transferability of calibrations to other ABB laboratory and process analyzers

MB3600-CH40 – Target Applications

Target customers

- Analytical laboratories in chemical industry (R&D, QA/QC, at-line production support)
- Special focus on agrochemicals industry (pesticides and fertilizers)

Example application notes on ASN

- FC-12: Determination of Hydroxyl Value in Solid Polyester Resins Using FT-NIR
- FC-13: Qualitative and Quantitative Analysis of Bonded Silica Gel using FT-NIR
- FC-22: Quantitative Determination of Surfactant, Moisture, Loose Bulk Density, and Assay Content in Herbicides Using FT-NIR
- FC-27: Quantitative Determination of Active Ingredient in Powder Herbicides Using FT-NIR
- FC-39: Analysis Moisture% and Mixture Ratios in Polymer Beads Using FT-NIR
- FC-40: Analysis of Organic Additives on Solid KCl Granules Using FT-NIR



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