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Agtron M-BASIC II

The M-BASIC II Agtron Process Analyser

The M-BASIC II is an abridged spectrophotometer designed specifically to address the special requirements associated with evaluating and quantifying the roast of whole bean and ground coffee. Unlike general "colour" instruments, the M-BASIC II operates in the near-infrared energy band where the highest spectral reflectance activity occurs as a function of degree of roast.

Operation

The resolution and accuracy of this coffee roast analyzer provides previously unobtainable quantification of the roasting process. With this type of high resolution information, it is now possible to re-define roasting process parameters, greatly improve product consistency, quality and yield.

New features

Excellent Agreement with other M-BASIC II Analyzers: One of the design priorities of the M-BASIC II was to improve the "analyzer to analyzer" agreement within the M-BASIC II family and over indefinite periods. The results are an inter-instrument correlation of 0.30% and long-term correlation of 0.50%. This is an order of magnitude improvement over previous M-BASIC roast analyzers.

No More Fragile Glass Sample Dishes: The M-BASIC II joins the E20CP Roast Analyzer as a top-viewing instrument. It uses resilient plastic dishes, replacing the fragile glass type required by the bottom-viewing models. No sample dish cleaning is required from sample-to-sample tests.

Simplified Calibration: A two-point calibration method improves long-term control over both the analytical slope and span. In addition, improved stability requires less frequent calibration and takes only about one minute.

Super Durable Calibration Standards: The M-BASIC II features a new two-sided single calibration disk. Made from high strength plastic, this disk withstands the industrial environment, is stabilized for long-term accuracy, and can be easily cleaned without damage.

Enclosed Shielded Sample: The sample is placed in a drawer that shields the product from ambient light during analysis eliminating potential environmental influence.

Improved Linearity: The M-BASIC II uses the same chemistry based analysis strategy as all previous Agtron Roast Analyzers but roast scores now correlate more exactly to the sensory assessment of roast development. The M-Basic II has a correlation to the related compounds of 1.0%. The M-Basic that it replaces had a 3.0% correlation.

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Improved Resolution: The M-BASIC II has a system resolution of 0.10%; extreme accuracy is inherent.

Faster Warm-up: The M-Basic II will take accurate readings 30 minutes after the analyzer is turned on. The previous M-BASIC's required a 24-hour warm-up before use.

Solid State Long Life Lamps: The M-Basic II uses substrate-based solid-state NIR illumination eliminating the need to replace lamps. This new illumination features electronic regulation. As a result, the analyzer is extremely stable and impervious to line voltage fluctuation and transients. The design MTBF of the light source is 80,000 hours.

Super-Regulated Power Supply: The M-BASIC II has an all-new power supply. Electronic regulation allows the analyzer to function normally and accurately even in "brown-out" power line conditions. The analyzer is also well isolated and protected from the types of line voltage transients common to industrial environments that can cause damage to sensitive electronics.

Lower Power Consumption: The M-BASIC II uses about 28 watts, one-third the power of previous models.

Contact
For additional information, questions about our products or service, please contact us.

Post address:

ST Analytical B.V.

P.O. Box 12

3360 AA Sliedrecht

The Netherlands

www.agtron.eu

E-mail:

info@agtron.eu

Visiting address:

ST Analytical B.V.

Energieweg 20b

2964 LE Groot-Ammers

The Netherlands

Tel: +31-(0)184-640000

Fax: +31-(0)184-640001