

## Agtron M-BASIC III



### The M-BASIC III Agtron Process Analyser

The M-BASIC III 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 III 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 analyser 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 III Analysers:** One of the design priorities of the M-BASIC III was to improve the "analyser to analyser" agreement within the M-BASIC III 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 analysers.

**No More Fragile Glass Sample Dishes:** The M-BASIC III joins the E20CPIII Roast Analyser 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 III 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

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**Solid State Long Life Lamps:** The M-Basic III 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 III 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 III uses about 28 watts, one-third the power of previous models.

### Contact

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