

M.O.L.E.™ EV6

AN EVOLUTION IN THERMAL PROFILING



Thermal Profiler

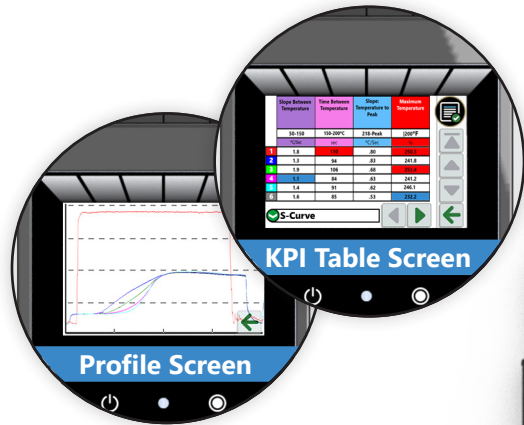


The new M.O.L.E.™ EV6 brings deep data collection and touchscreen convenience to thermal profiling for commercial and artisan baking operations. The traveling thermal profiler allows configuration, measurement, and data analysis right on the device – providing immediate actionable information, saving time, and reducing the requirement for intensive operator training. Using a familiar smartphone-like capacitive touch screen, users now have food production thermal processing data literally at their fingertips. The six-channel M.O.L.E. EV6 integrates with all ECD sensors including BreadOMETER™ and CakeOMETER™ for in-process product data in a scalable system. The device is backward compatible, so new sensor investment is not required.

www.ecd.com

A large image showing the M.O.L.E. EV6 thermal profiler resting on a wooden tray filled with a loaf of bread. The device's screen displays a data interface. The background is a complex overlay of data charts, including line graphs and a table. A yellow box on the graph indicates 'Start 38°C'. A yellow box on the right shows '48%'. The table at the bottom has columns for 'Temperature' and 'Time', with values like '93°C', '25:59', '23', '22', '23', '23', '23', '23'.
The ECD logo, 'SINCE 1984', is surrounded by four circular icons: 'PROCESS DEVELOPMENT & VERIFICATION', 'MACHINE QUALITY MANAGEMENT', 'DATA MANAGEMENT', and 'SAFETY & COMPLIANCE'.
Five circular icons representing different sectors: 'ELECTRONICS' (green), 'BAKING' (brown), '3D/ADDITIVE' (purple), 'SOLAR' (orange), and 'INDUSTRIAL' (red).
An American flag icon with the text 'Made in USA'.

FEATURES



SIMPLE AND IMMEDIATE STATUS CONFIRMATION

- On-screen instrument status display:
 - » Live temperature readings
 - » Thermal profile
 - » KPI table

EASE OF USE

- USB C communications and charging
- 2-button control (on/off and record)



FLEXIBILITY

- Support of multiple thermocouple types and integration with existing sensor technologies

SPEED

- Sampling at up to 100 samples per second

PREVENTATIVE MAINTENANCE

- Built-in calibration reminders
- Battery life/charge indicators
- Memory status

OPERATIONAL ROBUSTNESS

- High-capacity, off-the-shelf Lipo battery
- Auto shutdown protection for over temp conditions
- Programmable to conserve battery life
- Watchdog timer-monitored firmware control
- ESD-protected inputs
- Non-volatile profile memory



M.O.L.E.™ MAP SOFTWARE

Download and analysis enabled by award-winning software

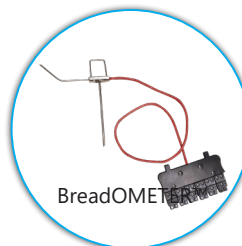
M.O.L.E.™ EV6 BAKING SYSTEM



SYSTEM INCLUDES:

- M.O.L.E.™ EV6 thermal profiler
- Choice of thermal barrier
 - BB-45, BB-50 or BB-80
- Choice of PFA set of 6 Color-Indexes 30-gauge Thermocouples
 - 7-ft. or 3-ft.
- M.O.L.E.™ MAP software
- PC USB C cable (set-up & download)
- Universal power pack charger
- Quick reference guide
- Carrying case
- Calibration Certificate from ECD's ISO 17025 accredited lab

Scalable Sensor Integration Baked Goods Production



BreadOMETER™



CakeOMETER™



OvenBALANCER™

Engineering Process Control Solutions for Over 50 years

SPECIFICATIONS

DISPLAY

- IPS TFT display
- 240 x 363 dot matrix
- High brightness LED backlight
- Any angle viewing direction

THERMOCOUPLE INPUTS (UP TO 6)

- ECD Micro-Thermocouples: Type K, T, J, E, N, R, S & B (Type K Special Limits of error)
- %RH: ECD VaporWATCH™ RH sensor

DATA ACQUISITION

Sampling interval: 100 samples/second to 10 minutes/sample
Data points: 16 million (2.6 million at 6 channels) or 200 data runs (whichever comes first)

Accuracy: +/- 1°C (1.8°F)

Resolution: 0.0056°C (0.01°F)*

Noise rejection: 50-60 Hz*

Measurement range: -200°C to 1,200°C (-328°F to 2,192°F)

POWER

Battery: Lipo (lithium polymer ion) - rechargeable, 1100mAh

Charge protection: Optimized for lithium polymer

Charge time: Full - < 4 hours

Charge runtime: Full - 6 to 8 Hours

Battery life: 300 charging cycles or 3 years (minimum)

Charger input current: 60 ma via USB interface

* >= 0.5 seconds/sample

COMMUNICATIONS

Interface: USB 2.0 compliant (charge;upload;download)

Cable: USB type A to USB-C, 1m (3')

PHYSICAL

Dimensions (L x W x H):

- Profiler: 152.4mm [6"] x 89mm [3.5"] x 9.41mm [0.37"]
- BB-45: 241mm [9.5"] x 122mm [4.80"] x 46mm [1.82"]
- BB-50: 238mm [9.37"] x 122mm [4.80"] x 49mm [1.93"]
- BB-80: 236mm [9.3"] x 123mm [4.7"] x 80mm [3.15"]

Weight:

- Profiler: 0.204 kg [7.2 oz]
- BB-45: 1.47kg [3.25lbs]
- BB-50: 2.38kg [5.25lbs]
- BB-80: 4.1kg [8.95 lbs]

Operational range (profiler): -40°C to +85°C (-40°F to 185°F)

Humidity: 0-85% RH (non condensing)

COMPLIANCE



PATENT


Patent No. 7,653,502

WARRANTY

2 years parts and labor

WEB PAGE

ecdusa.co/mev6-bake

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