

M.O.L.E.™ EV6

AN EVOLUTION IN THERMAL PROFILING



Thermal Profiler



With a revolutionary new design, M.O.L.E.™ EV6 brings deep data collection and touch screen convenience to thermal profiling. 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 shop floor data literally at their fingertips. The six-channel M.O.L.E.™ EV6 integrates with all ECD RIDER™ machine quality management technologies for a truly scalable approach, made easier with visual, touch screen control.

www.ecd.com

A large photograph showing the M.O.L.E.™ EV6 thermal profiler device resting on a grey metal tray. The tray is placed on a green printed circuit board (PCB) with various components and wires. The device's screen displays a graph of thermal data. In the background, there is a faint image of a software interface with various charts and data points.

Assembly-Board Process-Profile

Zone 1 | 01:30 r | 02:00 r | 03:00 r | 04:00 r | 05:00 r | 06:00 r

Slope Temperature | Maximum Temperature | Time Above Temperature Total (+/-) | Peak-183 Temperature | Add Extra

YOUTUBE

ELECTRONICS

BAKING

3D/ADDITIVE

SOLAR

INDUSTRIAL

PROCESS DEVELOPMENT & VALIDATION

MACHINE QUALITY MANAGEMENT

USER INTERFACE, ANALYSIS & OPTIMIZATION

COMPONENT DRY STORAGE

ECD SINCE 1984

FEATURES

FLEXIBILITY

- Supports multiple thermocouple types

SPEED

- Sampling at up to 100 samples per second

PREVENTATIVE MAINTENANCE

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

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)

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 SYSTEM

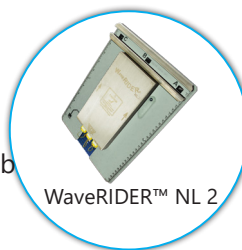
[ECD P/N: E61-3806-00]



SYSTEM INCLUDES:

- M.O.L.E.™ EV6 thermal profiler
- 1.0" Uni-Barrier stainless steel thermal barrier
- Yellow Jacket thermal barrier cover
- Glass set of six color-indexed 36-gauge thermocouples
- 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

**Integrates with all ECD RIDERs for
scalable machine quality management**



WaveRIDER™ NL 2



OvenRIDER™ NL 2+



SelectiveRIDER™

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")
- Barrier: 269.7mm (10.62") x 104mm (4.1") x 26.9mm (1.06")
- Yellow Jacket: 286.5mm (11.28") x 115mm (4.53") x 32.5 (1.28")

Weight:

- Profiler: 0.204 kg (7.2 oz)
- Barrier: 0.861 kg (30.4 oz)
- Yellow Jacket: 0.07 kg (2.4 oz)

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

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