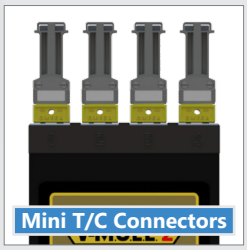
NEW

V-M.O.L.E.™ 2

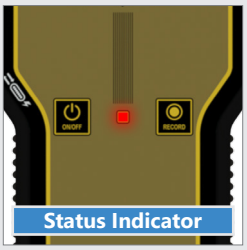
Thermal Profiler

High Value Verification

The V-M.O.L.E.™ 2 thermal profiler is the go-to solution for simple verification of PCB profile performance. Four channels capture all measurements necessary for verifying the proper oven settings. Powered by award-winning M.A.P. software, data capture, download, and analysis are streamlined and intuitive. With separate on/off and record buttons to prevent lost profiles, an expansive storage capacity of up to 200 thermal profiles, and one-button profile confirmation, the V-M.O.L.E. 2 makes setting up, validating, and maintaining proper thermal profiles easy and efficient.



Mini T/C Connectors



Status Indicator

FEATURES | BENEFITS

Protect your Time and Profiler

- Indicators identify if critical systems are "GO" before profiling
  - » Internal battery voltage is low
  - » Internal temp is at or above a threshold
  - » Memory is full
  - » All channels are OFF

Flexibility

- 4 thermocouple inputs
- Uses standard, mini thermocouple connectors
- Multiple thermocouple types supported

Profile Verification

- 4 Channels, all you need to run a profile verification

Speed

- Sampling at up to 100 samples per second
- Higher sampling rates with higher accuracy

Built to Last

- High-capacity, off-the-shelf LiPo battery
- Automatic shutdown if internal temperature is too high
- ESD-protected inputs
- USB-C communications and charging

WHAT'S IN THE KIT

STANDARD THERMAL PROFILER KIT
ECD P/N: E63-0509-00

- V-M.O.L.E.™ 2 thermal profiler
- 260L stainless steel thermal barrier
- 260L Yellow Jacket thermal barrier cover
- Set of four glass 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

SPECIFICATIONS:

THERMOCOUPLE INPUTS (4)

Standard mini-thermocouples: Type K, T, J, E, N, R, S & B
%RH: ECD VaporWATCH® RH sensor

COMMUNICATIONS

Interface: USB 2.0 compliant (charge;upload;download)
Cable: USB type A to USB-C, 1m (3')

DATA ACQUISITION

Sampling interval: 100 samples/second to 10 minutes/sample
Data points: 16 million or 200 data runs (whichever comes first
Accuracy: +/- 0.5°C (0.9°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 run time: Full - 6 to 8 Hours
Battery life: 300 charging cycles or 3 years (minimum)
Charger input current: 60 ma via USB interface

> = 0.05 seconds/sample

PHYSICAL

Dimensions (L x W x H):
- Profiler: 165.1mm (6.5") x 89mm (3.5") x 9.41mm (0.37")
- Barrier: 253.9mm (10.0") 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: 0.182 kg (6.4 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

CE UK CA

PATENT

Patent No. 7,653,502

WARRANTY

2 years parts and labor

PRODUCT PAGE

ecdusa.co/vm2

All information is subject to change at any time without notice.

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