

# The Industry Standard Profiler for FSMA Compliance and Perfect Baking Results



The portable, programmable **BakeWATCH® Profiling Kit** offers a traveling method to measure, record, and document both baked goods and oven temperature variations in your conveyerized ovens without trailing long cables or wires.

## Features:

- **Oven Balancing** - The BakeWATCH® profiler, housed in a stainless steel enclosure, travels with up to 6 thermocouple sensors clipped to pans across the belt. This oven ambient data captures a picture of your oven's performance in the thermal profile.
- **Baked Goods Optimization** - The next step is to use this new-found product-level thermal knowledge to optimize each product's profile from the baked goods' perspective. Inserting BakeWATCH® temperature sensors directly into the dough provides you with signature S-Curve data so relevant to controlling an optimum bake. Entry, Exit, Average, Yeast Kill and Gelatinization temperatures as well as % Bake Time to Arrival temperature are all calculated and displayed for your product improvement and benchmarking.

## Product Benefits:

- Produce consistently High Quality Product – at all locations
- Reduce Waste - Improve Yields & Profits
- Optimize active ingredients benefits
- Profiles Chilling/Freezing Operations too
- Profile Proofers humidity with MiniM.O.L.E.®rH or VaporWATCH®

## Oven Benefits:

- Balance Your Ovens Simply and Efficiently
- Replace opinions with facts
- Pinpoint Problem Areas Immediately
- Reduce Energy Costs
- Achieve optimum yield across all work shifts

## System Includes:

- SuperM.O.L.E.® Gold 2
- Quick Reference Guide
- Calibration Certificate
- Power Pack Charger
- BB-50 Hinged Hot Box
- USB PC Interface Cable
- M.O.L.E.® MAP Software
- 6 - Color Coded 0.010" Type K Thermocouples - 7 Ft
- Carrying Case



**Order ECD P/N: E52-2253-05**



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# SPECIFICATIONS



## THERMOCOUPLE SENSORS

Up to 6 Type K ECD Micro-Thermocouples

## COMMUNICATIONS

Interface: USB Compliant (charge;upload;download)  
Cable: USB Type A, Male-to-Mini B, 5 pin Male, 1m (3')

## DATA ACQUISITION

Sampling Interval: 0.1 seconds to 24 hours  
Data points: 250,000 for all 6 channels  
Data runs stored: 96+ (Standard Thermal Profiles)  
Accuracy: +/- 1°C (1.8°F)  
Resolution: 0.056°C (0.1°F)  
Measurement range: -200°C to 1271°C (-328°F to 2320°F)

## POWER

Battery: Lithium Polymer - Rechargeable, 340mAh  
Charge Protection: optimized for lithium polymer  
Charge time:

- Partial: 15 minutes (1 Run Minimum)
- Full: 9 hours

Charge Capacity:

- 10 Runs (Minimum)

Battery Life: 3 Years Minimum  
Charger input current: 175 ma via USB Interface

## PATENT

U.S. PATENT No. 7,653,502

## PHYSICAL

### Dimensions (L x W x H):

- Profiler: 152.4mm (6") x 89mm (3.5") x 9.41mm (0.37")
- Barrier BB-45: 251.5mm (9.9") x 116.8mm (4.6") x 44.5mm (1.75")
- Barrier BB-50: 238mm (9.37") x 122mm (4.80") x 49mm (1.93")
- Barrier BB-80: 236mm (9.3") x 123mm (4.7") x 80mm (3.14")

### Weight:

- Profiler: .204 kg (7.2 oz)
- Barrier BB-45: 1.47 kg (3 lbs 4 oz)
- Barrier BB-50: 2.38kg [5.25lbs]
- Barrier BB-80: 4.1kg (8.95 lbs)

## OPERATIONAL ENVIRONMENT

Humidity: 0-85% RH (Non Condensing)

Temperature:

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

	BB-45	BB-50	BB-80
204C/400F°	25 min.	40 min.	90 min.
260C/500F°	15 min.	30 min.	60 min.

## COMPLIANCE

EN 301 489-01 V1.8.1:2008  
EN 300 328 V1.7.1:2006  
EN 301 489-17 V2.1.1:2009  
EN 60950  
R&TTE 1999/5/EC  
Low-voltage Directive 2006/95/EC  
RoHS 2002/95/EC  
WEEE 2002/96/EC



## WARRANTY

2 years parts and labor

## WEBSITE

[www.bakewatch.com](http://www.bakewatch.com)



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