



The Global Leader in Thermal Technology

Profile Tracer

Built for today. Ready for tomorrow.

Key Benefits

- Detects multiple variables affecting the thermal profile in one pass
- Measures temperature at the product level and the heat source
- Identifies inconsistencies in vibration
- Utilizes 3 methods of data acquisition:
 - ▶ Temperature at the product level
 - ▶ Temperature at the heat source
 - ▶ Vibration along the thermal path
- Reduces initial oven set-up time
- Facilitates process optimization
- Industry 4.0 ready

Key Features

- 6 K type thermocouple system compatible
- 2 Pyrometers
- 3-axis Accelerometer
- Compact design
- Lead Free Shield with cold touch insulation

Profile Tracer is a next-generation thermal profiling tool providing real-time data acquisition for oven optimization by identifying inconsistencies due to temperature variables at both the product level and at the heat source. Profile Tracer measures dual temperature locations as well as vibration all in one pass.

Profile Tracer supports Industry 4.0 capabilities by acquiring data sets, enabling data communication, and increasing database analysis using In-One-Pass (I-O-P) technology. Profile Tracer software is part of the Wincon™ ecosystem of powerful diagnostic and analytical tools supporting overall process optimization.

Profile Tracer's predictive capabilities go beyond traditional profilers by using internal sensors and top-of-the-line heat resistant optic windows to measure the thermal profile at the same time, location on the path, and conditions at the product level as well as at the heat source. The integrated pyrometers develop a heat-map of the oven tunnel showing multiple data points along the thermal path providing the ability to eliminate factors affecting the thermal profile.

Using a stainless steel thermal shield casing along with low optical dispersion windows Profile Tracer has the ability to gather the most accurate temperature readings while having the ability to withstand increased temperature settings.

Profile Tracer facilitates initial oven set-up by detecting a number of variables affecting the thermal profile.



Detecting multiple process variables using In-One-Pass (I-O-P) Technology

- Internal sensors and top-of-the line heat resistant optic windows measure the thermal profile at the same location and conditions at the product level as well as the heat source.
- 3-axis accelerometer displaying vibration data in X-Y-Z axis, at operating temperatures..
- T40 Fine gauge insulated thermocouple wire senses inconsistencies in the oven heat output.
- I-O-P Technology indicates any diversion from control state alerting users to inspect the status of the conveyor, blowers, and other components
- The unit's compact design, user-friendly software, modest cost, and integration into the BTU system, contribute to overall reduction in cost of ownership.

Dimensions: (mm)	L	W	H
Profiler dimensions	120	65.5	14.5
Shield dimensions Stainless Steel	281	78	24
Shield dimensions with Insulation material	281	80.5	27.5

* All specifications are subject to change without notice

Specifications:

- 0C - 75°C internal operating temperature
- Accuracy +/- 0.5°C
- Resolution 0.1°C
- Sample Rate up to 50 readings per second
- Temperature range -250°C to 1200°C
- Wi-Fi 2.4 GHz
- 6 K type thermocouple system, standard
- Accelerometer
- 2x Pyrometers
- 4x LED's for Battery Level
- 4x LED's for Unit Status

PROFILE TRACER KIT CONTENTS:

- 6 Channel Profiler
- USB dongle and Wi-Fi docking station
- Stainless Steel Thermal Shield
- Custom Carrying Case
- Profiler Carrier
- USB-C to USB cable
- Profiling Protective Gloves
- 6 K Type Thermocouples
- T40 Fine gauge insulated thermocouple wire
- Scissors
- 6x Aluminum Tape Strips
- Quick Reference Manual
- 2 Year Warranty

LEARN MORE

Scan to download more Profile Tracer information to see how it can improve your thermal process.



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