DeFelsko PosiTestOTL Oven Temperature Logger Instructions

Oven Temperature Logger
Measures and records oven temperature profiles

Record up to 40,000 datasets
into 6 independent batches

Contents

PosiTestOTL Oven Temperature Logger

High temperature stainless steel barrier box for long run times

Oven Temperature Logger
The PosiTest OTL Oven Temperature Logger with included barrier box and holder is ideal for measuring oven temperature profiles.

Features

- Simple, easy-to-use interface
- 6 K-type thermocouple ports (channels)
- Measures and records up to 40,000 datasets (240,000 readings) in up to 6 batches
- Records measurements every 2 seconds for up to 22 hours of recording time
- Download, view, and analyze batch data using PosiSoft Desktop software.
  Export .CSV files for easy import into spreadsheets.
- NEW Cure Index compares supplier's cure specifications to actual oven and part temperatures to ensure a
  proper cure
- Bright LEDs indicate logger status at a glance

- High temperature stainless steel barrier box with fiberglass insulation for long run times at high temperatures. Contains no silicone.
- Certificate of Calibration showing traceability to NIST included

Temperature Probes

- Wide variety of temperature probes available with 1.8, 3.6, or 6 m (6', 12', or 20') stainless steel braided cables (sold separately). See the following page for details.
- Certificate of Calibration showing traceability to NIST included

Two Kits available
The PosiTest OTL is available in two configurations. The PosiTest OTL XT features an enhanced holder with heatsink for greater endurance at high temperatures.
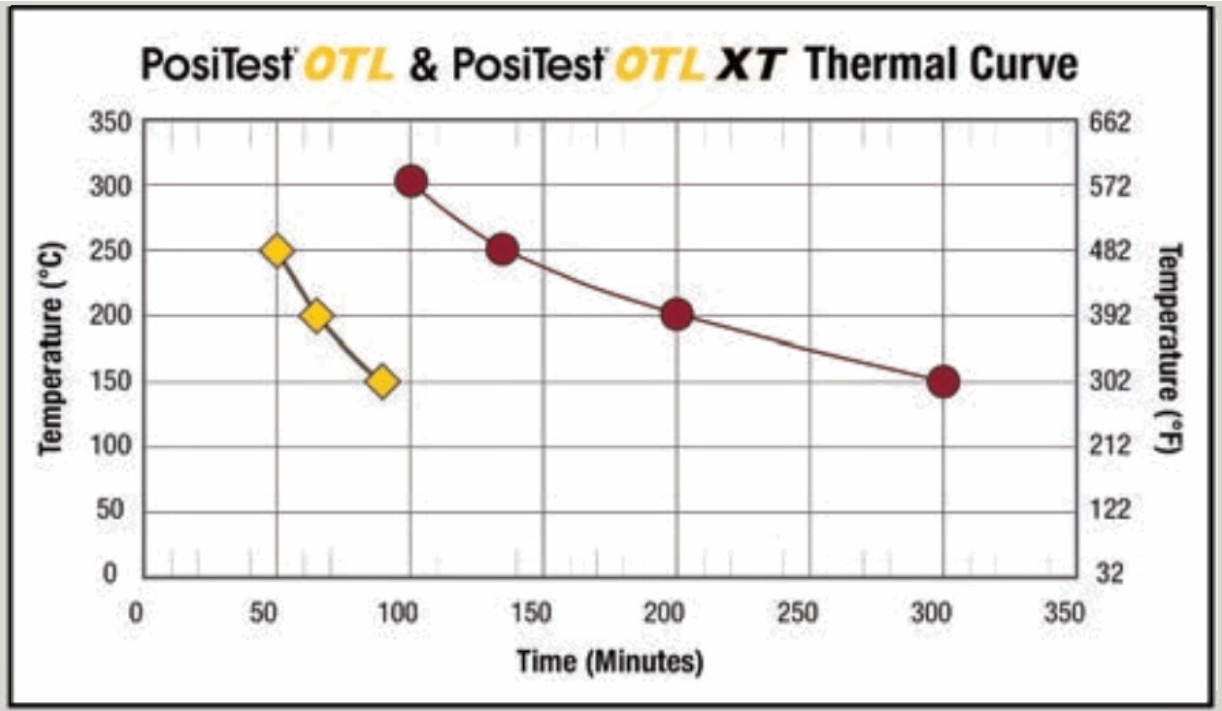
PosiTest OTL Kit   PosiTest OTL XT Kit

	PosiTest OTL (OTLKIT)	PosiTest OTL XT (OTLKITXT)
150° C (302° F)	90 minutes	300 minutes
200° C (392° F)	65 minutes	200 minutes
250° C (482° F)	50 minutes	140 minutes
300° C (572° F)	not recommended	100 minutes

The chart and table above represent the combined thermal characteristics of the PosiTest OTL, Barrier Box and choice of Holder/Holder XT
Ordering Guide

PosiTest OTL Kit	OTLKIT
PosiTest OTL XT Kit	OTLKITXT

PosiTest OTL Specifications

Channels	6 K-type non-grounded thermocouples
Thermocouple Measurement Range	-100 to 1000° C -148 to 1832° F
Logger Operating Temperature Range PosiTest OTL without Holder or Barrier Box	0 to 70° C 32 to 158° F
Logger Accuracy	+ 0.5° C + 0.9° F
Resolution	0.1° C 0.1° F
Memory	40,000 Datasets. Each Dataset consists of up to 6 channels.
Sample Interval	2 seconds (Fixed) Maximum recording time is 22 hours

Power Source: 2 AAA batteries
Battery Life: 30 hours (recording time)
Size: 30.5 x 25.5 x 15 cm (12" x 10" x 6")
Weight:* 9 kg (20 lbs.)
* Weight includes the PosiTest OTL, Holder, and Barrier
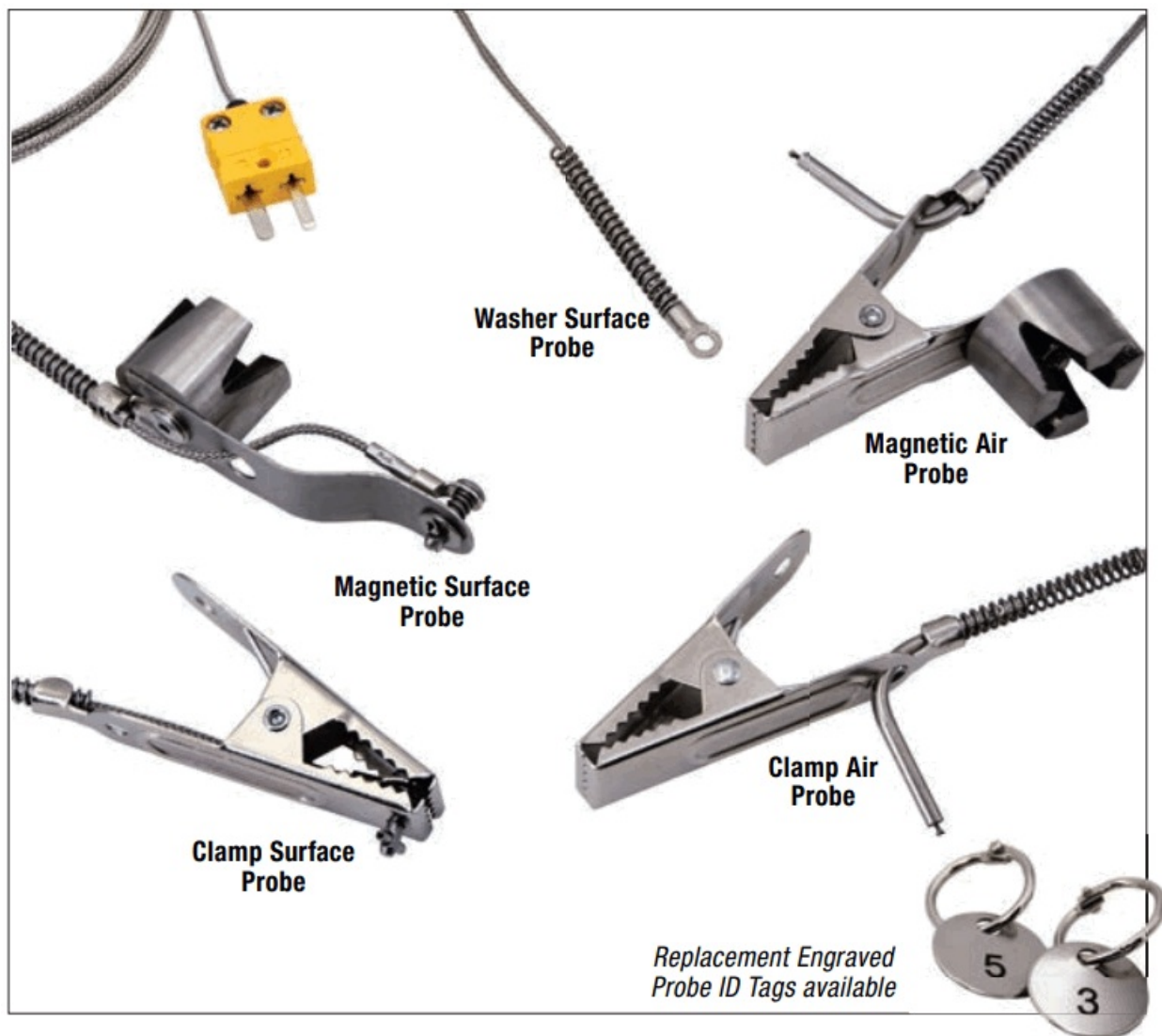Box. Holder XT increases weight to 11 kg (25 lbs.).

LOGGER KITS COME with temperature logger, stainless steel high temperature barrier box, choice of holder, 6 engraved probe ID tags, two AAA batteries, instructions, Long Form Certificate of Calibration traceable to NIST, carrying case, USB cable, PosiSoft Desktop software, and two year warranty.
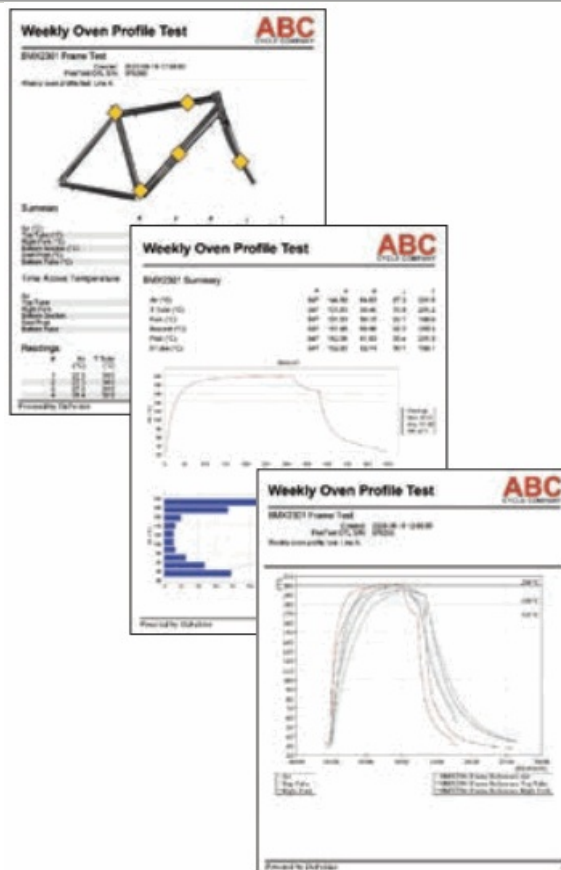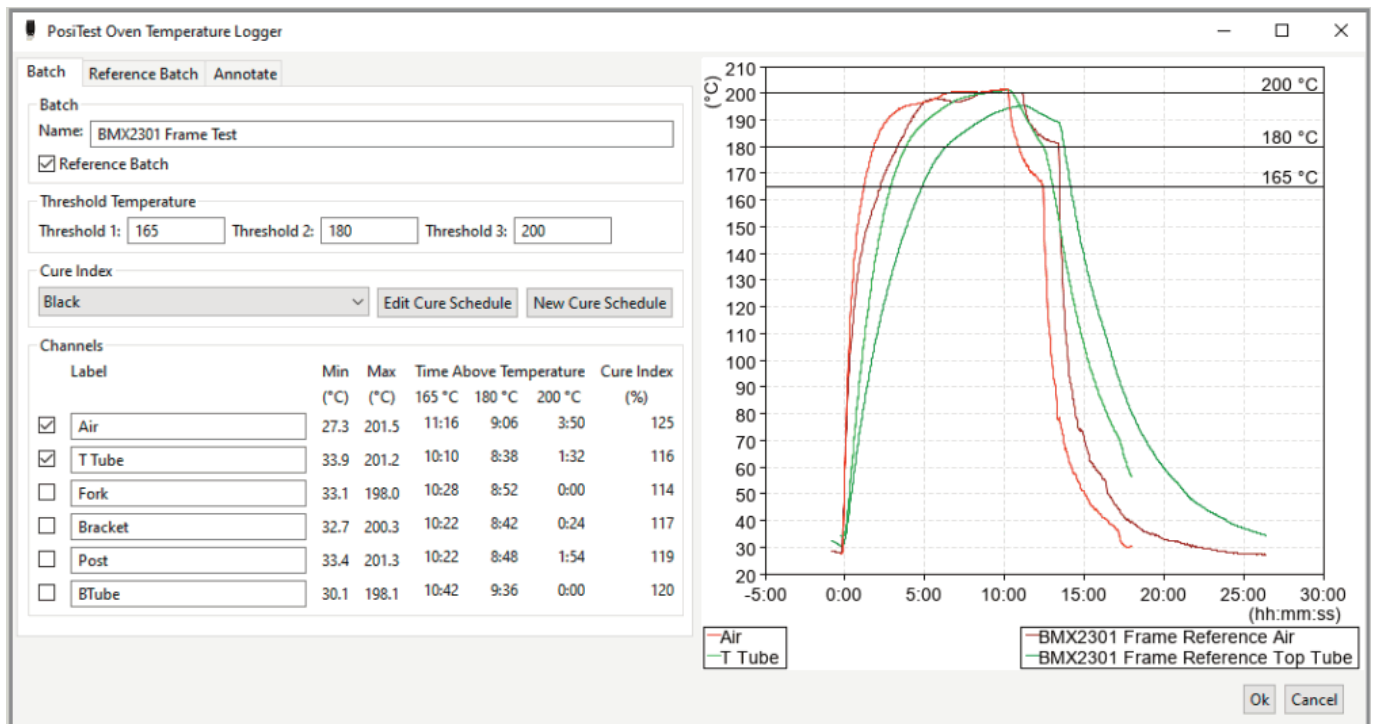
Temperature Probe Options

Temperature Probes	Temperature Range	Order Code
Spring Clamp – Surface Probe: 1.8 m (6') Spring Clamp – Surface Probe: 3.6 m (12') Spring Clamp – Surface Probe: 6 m (20')	-100 to 500°C -148 to 930°F	PRBOTLCS6 PRBOTLCS12 PRBOTLCS20
Spring Clamp – Air Probe: 1.8 m (6') Spring Clamp – Air Probe: 3.6 m (12') Spring Clamp – Air Probe: 6 m (20')		PRBOTLCA6 PRBOTLCA12 PRBOTLCA20
Magnetic – Surface Probe: 1.8 m (6') Magnetic – Surface Probe: 3.6 m (12') Magnetic – Surface Probe: 6 m (20') –	-100 to 300°C -148 to 570°F	PRBOTLMS6 PRBOTLMS12 PRBOTLMS20
Magnetic – Air Probe: 1.8 m (6') Magnetic – Air Probe: 3.6 m (12') Magnetic – Air Probe: 6 m (20')		PRBOTLMA6 PRBOTLMA12 PRBOTLMA20
Washer – Surface Probe: 1.8 m (6') Washer – Surface Probe: 3.6 m (12') Washer – Surface Probe: 6 m (20')	-100 to 500°C -148 to 930°F	PRBOTLW6 PRBOTLW12 PRBOTLW20

Washer Surface
Probe

Magnetic Air
Probe

Magnetic Surface
Probe

Clamp Air
Probe

Clamp Surface
Probe

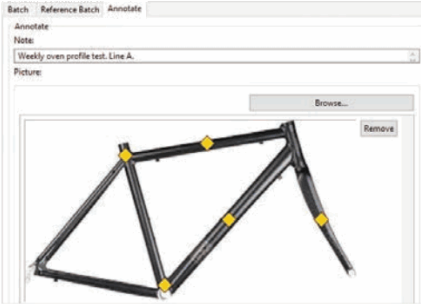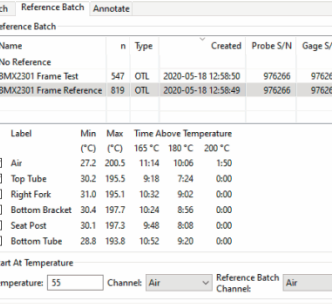Replacement Engraved
Probe ID Tags available

5

3
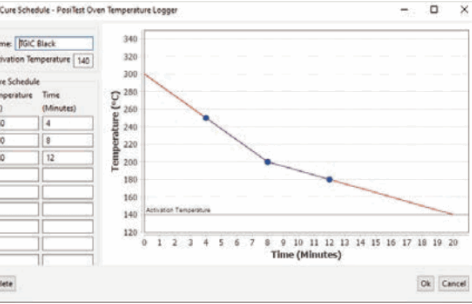
PosiSoft Desktop

FREE powerful desktop software (PC/Mac) for downloading, viewing, printing, and storing measurement data.
Add supplier cure schedule specifications, batch annotations, label individual channels, set threshold
temperatures, and compare datasets to reference batches.
Includes a customizable, templated PDF Report Generator. No internet connection required.
Assign names to each channel and view Cure Index,
Time above Temperature, and other statistics

PosiTest Oven Temperature Logger

Batch | Reference Batch | Annotate

Batch
Name: BMX2301 Frame Test
☑ Reference Batch

Threshold Temperature
Threshold 1: 165 | Threshold 2: 180 | Threshold 3: 200

Cure Index
Black | Edit Cure Schedule | New Cure Schedule

Channels

	Label	Min (°C)	Max (°C)	Time Above Temperature 165 °C	180 °C	200 °C	Cure Index (%)
☑	Air	27.3	201.5	11:16	9:06	3:50	125
☑	T Tube	33.9	201.2	10:10	8:38	1:32	116
☐	Fork	33.1	198.0	10:28	8:52	0:00	114
☐	Bracket	32.7	200.3	10:22	8:42	0:24	117
☐	Post	33.4	201.3	10:22	8:48	1:54	119
☐	BTube	30.1	198.1	10:42	9:36	0:00	120

Air | BMX2301 Frame Reference Air
T Tube | BMX2301 Frame Reference Top Tube

Ok | Cancel

Customizable PDF Report Generator—add custom cover pages and logos, and choose to display images, charts, histograms, and/or readings.

Annotate—add notes and images to document probe placement and other observations	Reference Batch—store optimal cure reference profiles to compare measurement results	NEW Cure Index calculates the correct time at temperature based on supplier's cure specifications to ensure a proper cure

Coating Thickness Gages for Before and After Cure

1. PosiTector 6000 Series

   Standard and Advanced features for measuring coating thickness on ALL metal substrates

2. PosiTest DFT Dry Film Thickness Gage

   Economical coating thickness gage for ALL metal substrates

3. PosiTest PC Powder Checker

   Non-contact coating thickness gage for measuring uncured powder coating thickness to predict a cured thickness

4. DeFelsko Powder Comb

   Notched comb for measuring uncured powder height to ensure correct cured film thickness

5. Powder Inspection Kit

   Complete solutions for measuring powder coating before and after cure

   Each kit contains:

   PosiTest PC Uncured Powder Thickness Gage

   Choice of dry film thickness gage

   Two DeFelsko Powder Combs (models 1 and 4)

   Select from 6 pre-configured kits or build your own at **www.defelsko.com/PCKits**

Documents / Resources

| | **DeFelsko PosiTestOTL Oven Temperature Logger** [pdf] Instructions
PosiTestOTL Oven Temperature Logger, PosiTestOTL, Oven Temperature Logger, Temperature Logger, Logger |

References

- **DeFelsko Coating Thickness Gages and Inspection Instruments**
- **Powder Checker - PosiTest PC | DeFelsko**