

Easy Oven Setup (EOS)

for use with *Insight™* software for Reflow Tracker®

EOS is the easy-to-use, automated recipe calculation software for reflow ovens. It eliminates the need to conduct repeated trial and error experiments. The EOS software will process thousands of oven temperature and speed setting combinations in seconds to find the recipe best suited to your product and process limits.



Insight™ features wizards to guide the user step-by-step

USE EASY OVEN SETUP TO:

- Speed up oven setting selection – saving time and money at new product introduction
- Optimize oven settings – selecting the most robust profile minimizes reject rate and rework costs
- Optimize line speed – matching demand and capacity to make the best use of production resources

HOW DOES EASY OVEN SETUP WORK?

EOS uses a newly developed search engine to calculate the effect of thousands of possible oven settings before recommending the 10 best options to the user. The profile calculated for each of the recommended recipes can be viewed graphically and analyzed numerically, ensuring the profile is exactly as required prior to programming the new settings into the oven and beginning production.

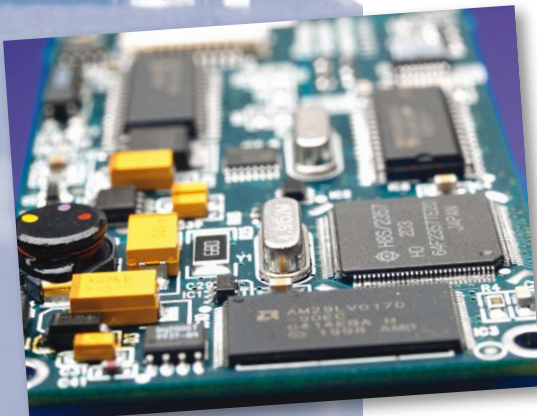
Just three simple steps are needed to achieve optimum oven setup:

1. Profile the product through the oven
2. Select or enter the new thermal profile process limits
3. 'Click' and EOS will indicate the optimum settings

Simply program the oven with new settings and start the production process.

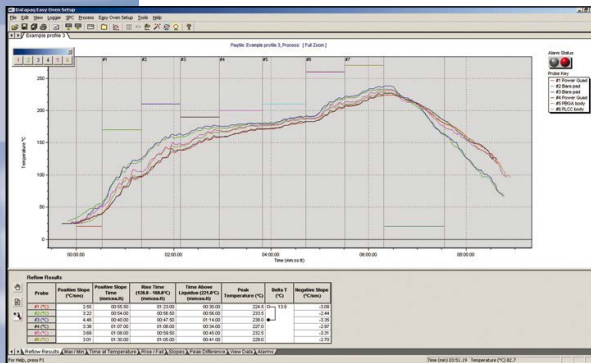
GET IT RIGHT THE FIRST TIME ...

Time is money! With Easy Oven Setup, you can cut setup time in half and maximize production for even greater profits!



EASY OVEN SETUP

Easy Oven Setup enables users to rapidly find the optimum settings for their product and process limits without having to do repeated trial and error profiles.



STEP 1

Profile your product in the reflow oven, enabling EOS software to calculate thermal characteristics of the product.

Thermal profile is showing red alarm – optimization required.

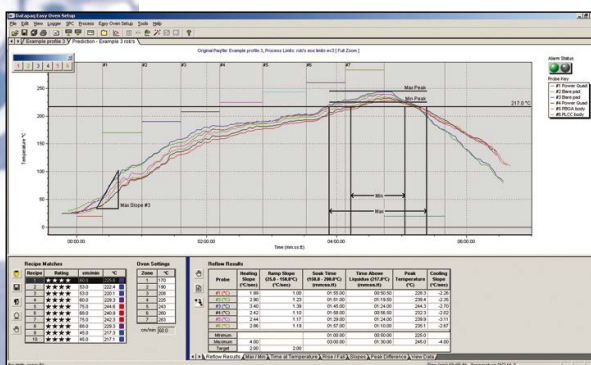
The screenshot shows the 'Process Limits Wizard: Setup Process Limits' dialog box. It contains several sections with input fields and checkboxes:

- Overall Profile Slopes:** Heating Slope (Maximum: 4.00 °C/sec, Target: 2.00 °C/sec), Cooling Slope (Maximum: 4.00 °C/sec).
- Ramp:** Temperature (From: 25.0 °C, To: 150.0 °C), Slope (Target: 2.00 °C/sec).
- Soak:** Temperature (From: 150.0 °C, To: 200.0 °C), Time (Minimum: 01:00:00 min:ss:ff, Maximum: 03:00:00 min:ss:ff).
- Reflow:** Peak Temperature (Minimum: 225.0 °C, Maximum: 245.0 °C, Target: 235.0 °C), Liquidus Temperature (217.0 °C), Time Above Liquidus (Minimum: 00:50:00 min:ss:ff, Maximum: 01:30:00 min:ss:ff, Target: 01:15:00 min:ss:ff).
- Line Speed:** Use Optimized Line Speed (checked), Minimum: 45.0 cm/min, Maximum: 75.0 cm/min.

STEP 2

Enter the profile process limits using as much, or as little detail as required.

Process limits are displayed in one easy to read table.



STEP 3

Click and the software will calculate the oven settings required to obtain the optimum profile for these limits.

Displays up to 10 possible recipe settings with full graphical and numerical analysis.

Easy Oven Setup is designed for use with Insight™ software for Reflow Tracker®. It is compatible with the full range of DataPaq® Q18 loggers.

Fluke Process Instruments

EMEA

Cambridge, UK
Tel: +44 1223 652 400
sales@flukeprocessinstruments.co.uk

Americas

Derry, NH USA
Tel: +1 603 537 2680
sales@flukeprocessinstruments.com

China

Beijing, China
Tel: +86 10 6438 4691
sales@flukeprocessinstruments.com.cn

Asia East and South

India Tel: +91 22 2920 7691
Singapore Tel: +65 6799 5596
sales.asia@flukeprocessinstruments.com

Worldwide Service

Fluke Process Instruments offers services, including repair and calibration. For more information, contact your local office.

www.flukeprocessinstruments.com

© 2016 Fluke Process Instruments
Specifications subject to change without notice.
9/2016 DS_Q18 EOS, Rev. B1

