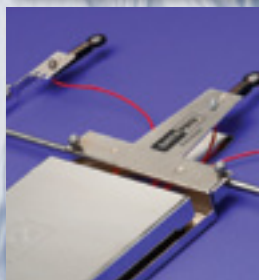


DATAPAQ

Reflow Tracker[®]

for complete thermal profiling



A Fluke Company

DATAPAQ

For over twenty years, the Datapaq® name has stood for exceptional value in thermal process monitoring. So it's no surprise that the most recent Datapaq innovations meet and exceed the highest standards for ease-of-use, ruggedness and accuracy. The Q18 family of loggers features the industry's broadest range of sizes and configurations for quick and easy monitoring of even the most demanding processes. Combine your Q18 logger and barrier with Easy Oven Setup (EOS) and Surveyor™ for the industry's fastest, most cost-effective solution for thermal process setup and monitoring. Our Insight™ software ties them all together seamlessly. Insight software is so intuitive, simple and powerful, you'll wonder how you ever managed without it.



Datapaq Reflow Tracker® System

The Industry's Best Thermal Profiler

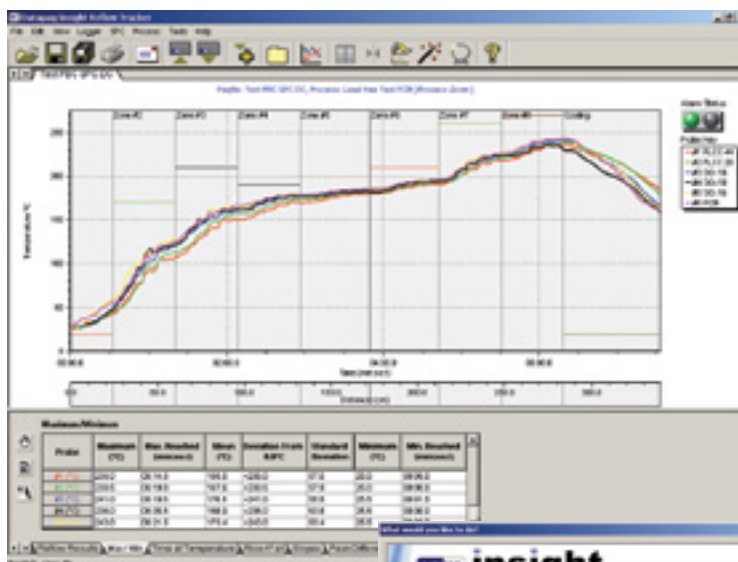
The Datapaq Reflow Tracker continues to set the industry standard for ease-of-use and reliability in thermal profiling. With up to 300,000 readings and unsurpassed accuracy, the Datapaq Q18 data logger performs without equal. Combine a logger from the Q18 family, Insight software, and one of our low-height stainless steel barriers and you'll get the best pass-through profiler available. Telemetry is also an option – or an upgrade – for real-time data acquisition. The bottom line: the Reflow Tracker system assures the most consistent analysis to improve your process.



Insight™ Software

Unique...Easy...Intuitive...Advanced

Datapaq Insight software takes the data gathered by the Q18 logger, quickly and easily interprets the information, and provides the analysis you need instantly. Setting up multiple processes – whether for different ovens, boards, recipes or all three – is a snap. Wizards lead you step-by-step through the entire procedure. You're up and running fast with minimal training – getting the most out of this remarkably advanced package.



The Reflow Results summary screen is just that. Insight software tells you, run after run, if your process is in specification. Ramp, soak, time above liquidous, peak, Delta T, and cooling – everything appears on one screen. And if something is out of specification, alarms alert you instantly. Simple tabs let you drill down for in-depth analysis of any parameter.



The SPC analysis feature confirms your process is in control. Identify needed changes immediately and prevent problems before they occur – saving time, money and ensuring constant quality.



Q18 Data Loggers

The most advanced and versatile family of loggers from Datapaq

These loggers go where no logger has gone before. Whether you need ultra low height, an incredibly narrow footprint, or up to 12 channels with rapid sampling, a Q18 logger is your best choice. Built with legendary Datapaq durability and accuracy, these loggers give years of reliable profiling.

- Ultra-fast USB connection
- Small footprint: less than 63.5 mm (2.5 in) wide, 12.7 mm (0.5 in) high
- Rapid charging

The environmentally friendly NiMH battery charges from flat to usable in five minutes. A full charge takes only two hours and lasts 150 runs. That eliminates daily recharging and the need to store batteries. And with 'hot data' protection, data cannot be accidentally erased before downloading.

Thermal Barriers

Our lead free capable barriers are incredibly lightweight and are constructed of durable stainless steel that won't be damaged by forceful handling. Our most popular barrier weighs a mere 0.7 kg (1.6 lbs) and can handle 300°C (572°F) for over eight minutes. With a wide variety of barriers to choose from, we can easily customize a system to meet your specific needs.



System Enhancements

Easy Oven Setup (EOS)

Automatic Recipe Definition

No more wasted assemblies. No more wasted time with trial-and-error profiling. EOS assures you get it right the first time. And, it's the fastest way to set up your reflow oven for new assemblies.



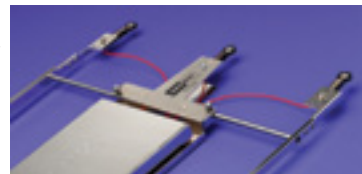
Three simple steps are required:

1. Profile the product in the reflow oven, enabling our software to calculate the thermal characteristics of the product or PCB assembly.
2. Enter the profile process limits using as much or as little detail as you require.
3. CLICK and the software will select the oven settings required to obtain the optimum profile for these limits.

Surveyor™

Process Monitoring WITHOUT Test Boards

The Datapaq Surveyor provides an easy and accurate way to monitor the thermal performance of your reflow oven. With its special sensors, the Surveyor can identify out of tolerance conditions before they become a problem. This system eliminates the need for test boards, while simplifying your profiling process.



Consisting of an adjustable frame, fixed sensors and the all new surveyor software, this is the industry's most reliable oven performance monitor.

Wave Solder Pallet

Easy, accurate measurement without complicated tools

Combine your Datapaq system with our wave solder pallet to get repeatable wave process information. Now it's easy to monitor the preheat chip and main waves of your machine. Insight software will analyze the parallelism, contact time, contact length and even the conveyor speed automatically. And you can view all these critical parameters in one easy-to-read report.



Technical Specifications

Q18 Data Logger

Memory	55,000 readings per channel
Sampling Interval	0.05 seconds to 10 minutes
Accuracy	±0.5°C (±0.9°F)
Resolution	0.1°C (0.2°F)
Maximum Internal Operating Temperature	85°C (185°F)
Temperature Range	-200°C to 1370°C (-328°F to 2498°F)
Data collection start	Start/Stop buttons, time or temperature trigger
Battery	Nickel Metal Hydride (NiMH) rechargeable
Thermocouple	Type K, Special Limits of Error ANSI MC 96.1

Part	Height	Width	Length	Weight	No. of Channels
DQ1812	20 mm (0.8 in)	60 mm (2.4 in)	237 mm (9.3 in)	0.4 kg (12.4 oz)	12
DQ1810	20 mm (0.8 in)	60 mm (2.4 in)	221 mm (8.7 in)	0.3 kg (10.5 oz)	10
DQ1860	11.7 mm (0.5 in)	106 mm (4.2 in)	150 mm (5.9 in)	0.4 kg (12.4 oz)	6
DQ1862	20 mm (0.8 in)	57 mm (2.2 in)	165 mm (6.4 in)	0.3 kg (10.5 oz)	6
DQ1861	12 mm (0.5 in)	62 mm (2.4 in)	302 mm (12 in)	0.4 kg (12.4 oz)	6

Standard System Thermal Barriers

Part	Height	Width	Length	Weight	Time @ Temperature (mins)		
					@ 200°C (392°F)	@ 250°C (482°F)	@ 280°C (536°F)
DQ1812 Suitable Thermal Barriers							
TB2081	28 mm (1.1 in)	88 mm (3.4 in)	274 mm (10.17 in)	0.6 kg (1.3 lbs)	10	8	7
TB2082	35 mm (1.3 in)	88 mm (3.4 in)	274 mm (10.17 in)	0.7 kg (1.5 lbs)	13	11	10
DQ1810 Suitable Thermal Barriers							
TB2061	28 mm (1.1 in)	88 mm (3.4 in)	258 mm (10.1 in)	0.6 kg (1.3 lbs)	10	8	7
TB2062	35 mm (1.3 in)	88 mm (3.4 in)	258 mm (10.1 in)	0.7 kg (1.5 lbs)	13	11	10
DQ1860 Suitable Thermal Barriers							
TB2064	20 mm (.79 in)	133 mm (5.2 in)	210 mm (8.2 in)	0.6 kg (1.3 lbs)	9	8	6
TB2015	25 mm (.98 in)	133 mm (5.2 in)	210 mm (8.2 in)	0.7 kg (1.5 lbs)	13	10	9
TB2065	29 mm (1.1 in)	133 mm (5.2 in)	210 mm (8.2 in)	0.7 kg (1.5 lbs)	13	11	10
DQ1862 Suitable Thermal Barriers							
TB2020	28 mm (1.1 in)	84 mm (3.3 in)	223 mm (8.7 in)	0.5 kg (1.1 lbs)	10	8	7
TB2021	35 mm (1.3 in)	84 mm (3.3 in)	223 mm (8.7 in)	0.65 kg (1.4 lbs)	13	11	10
DQ1861 Suitable Thermal Barriers							
TB2066	20 mm (.79 in)	88 mm (3.4 in)	334 mm (13.1 in)	0.65 kg (1.4 lbs)	8	6	6
TB2067	25 mm (.98 in)	88 mm (3.4 in)	334 mm (13.1 in)	0.65 kg (1.4 lbs)	11	10	8
TB2068	29 mm (1.1 in)	88 mm (3.4 in)	334 mm (13.1 in)	0.8 kg (1.8 lbs)	13	11	10

Datapaq designs and manufactures over 100 thermal barriers. Call with your process details to select the barrier specific to your application.

THE DATAPAQ GUARANTEE

Each Datapaq system is supported with a full one year warranty. Complementing the warranty, we offer a yearly service and re-calibration contract, which includes free software updates and loan equipment for guaranteed peace of mind.*

* Dependent on country.

The Worldwide Leader in Temperature Profiling



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