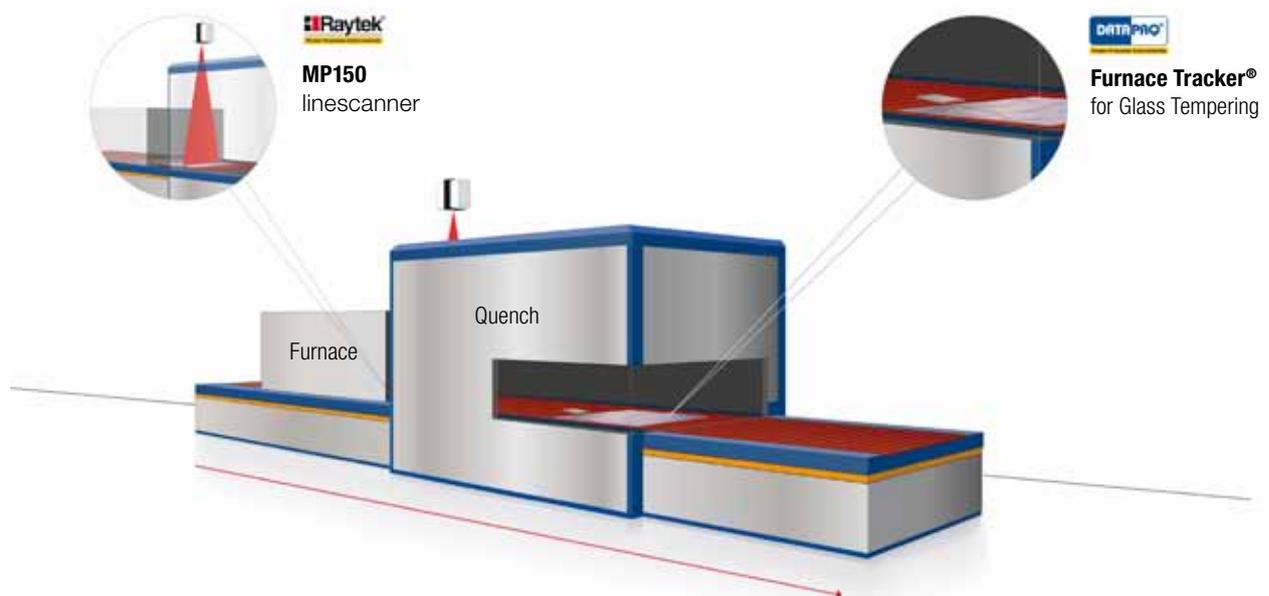


Complete Temperature Monitoring Solution for Glass Tempering Furnaces

The industry leaders, Raytek[®] and Datapaq[®], now offer a solution that combines the strengths of two measuring systems



It is widely understood within the industry that the glass tempering process needs to be carefully measured and controlled. This is generally conducted by means of a scanning system, such as the Raytek GS150, that measures and records the temperature uniformity of each sheet of glass processed. Measurement using a pyrometer provides users with 24/7 feedback on the tempering process and its stability. Glass that is used in architectural and automotive applications is often enhanced by application of low-e coatings that change the emissivity of the glass. This makes temperature measurement with the pyrometer problematic.

To accurately measure the temperature of low-e glass and to optimize or set up the process for a new glass type or thickness, more detail product temperature information is required. The new Datapaq temperature profiling system provides a complete temperature profile of the heating and cooling process from thermocouples attached directly to the glass. This approach provides accurate temperature readings irrespective of the glass type or surface coating.

The direct surface temperature measurement obtained by the Datapaq Furnace Tracker system can be used to correct and calibrate the emissivity setting of the pyrometer, enabling the user to benefit from the ease-of-use of the 24/7 linescanner system combined with the accuracy provided by direct temperature measurement.

The Winning Solution – from the Industry Leaders

In 2009, Raytek® and Ircon® were joined by Datapaq as a Fluke Company, to provide our customers with additional solutions for their industrial manufacturing needs.

With the Raytek and Datapaq combined solution for glass tempering, you can:

- Quickly and accurately set up the furnace for different glass thicknesses – for increased throughput
- Accurately measure temperatures even of low-e glass – for easy processing of high-value end products
- Reduce overheating – ensuring best finished product quality
- Identify furnace problems immediately – leading to early correction and minimized downtime
- Optimize furnace settings – reducing energy costs per sheet of glass processed

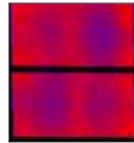
Raytek MP150 linescanner



The most widely used solution for real-time process temperature imaging. Raytek MP150 linescanner and GS150 software.

System Benefits

- 24/7 monitoring and recording of process performance for every product produced
- Fully automated quality monitoring for audit purposes – ISO9000
- Locate material defects immediately
- Quickly locate and correct changes in process performance



Datapaq Furnace Tracker



The industry leading high-temperature thermal profiling system: Datapaq DQ1840 four-channel datalogger, TB7528 thermal barrier and Insight™ software.

System Benefits

- Accurate temperature measurement for all types of glass, including hard and soft coated low-e glass
- Early identification of furnace problems
- Rapid trouble-shooting
- Optimized cycle times for reduced energy costs
- Reduced overheating ensures best optical properties in the finished sheet
- Quick furnace setup for different glass types and thicknesses

Fluke Process Instruments

Americas

Santa Cruz, CA USA
Tel: +1 800 227 8074 (USA and Canada, only)
+1 831 458 3900
solutions@flukeprocessinstruments.com

EMEA

Berlin, Germany
Tel: +49 30 4 78 00 80
info@flukeprocessinstruments.de

China

Beijing, China
Tel: +8610 6438 4691
info@flukeprocessinstruments.cn

Japan

Tokyo, Japan
Tel: +81 03 6714 3114
info@flukeprocessinstruments.jp

Asia East and South

India Tel: +91 22 2920 7691
Singapore Tel: +65 6799 5578
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

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