

Kiln Tracker® Specialty Systems

Monitoring system reveals what is happening to your product during the firing cycle

Your kiln is the heart of your operation and production. Monitoring the kiln lets you know what is happening to your product during the firing cycle, as this can be critical to the profitability of your business. Gaining a true knowledge of your kiln cannot be obtained by inspection of the finished product alone. Knowing the precise temperature of the ware at any position around the kiln car – at any time during the firing cycle, is essential to the management and control of your process and product quality.

DATAPAQ® solutions for kiln profiling are specialized systems based on the kiln type. Tunnel kilns, clayblock firing, roller hearth kilns and hydro kiln solutions powered by Insight™ software for ease-of-use analysis have been the preferred method of profiling for leading manufacturers for many years.



Kiln Tracker system beneath kiln car monitoring clay blocks



Kiln car equipped with high temperature antenna for RF telemetry



Kiln Tracker system in roller hearth sanitaryware kiln

SYSTEM FEATURES

- New DATAPAQ TP3 data logger featuring 3.6 Million data points with extended battery life
- High accuracy 10 and 20 channel data loggers ±0.3 °C (±0.5 °F)
- Multiple thermocouple types on one logger gives you flexibility on the type of thermocouples to be used
- Multiple systems specifically designed based on kiln and product type
- Easy to use software packages for the operator and advanced analysis for engineers and scientists
- Reliable TM21 radio telemetry provides you with live data from within the process to make changes in real time if necessary
- Specialty hydro kiln solutions for operation under water, dryers and firing zones
- Robust thermocouples for repeatability supplied for specific processes up to 1600°C (2912°F)

SYSTEM BENEFITS

- Detects and solves firing problems quickly, reducing rejects/fuel consumption and maximizing profit
- Quickly establishes the correct firing profile for new products, cutting development time
- Builds a database of optimum firing profiles for reference if the process suddenly goes out of specification
- Detects hot /cold spots on the kiln car or "hearth analysis software" pin points the location of the issues
- Instant read-out of heating and cooling rates across the quartz inversion zone for fast analysis heat cycles
- Remove diagnostics for data loggers, reducing service/support time to a minimum

TECHNICAL SPECIFICATIONS



TB3049 thermal barrier

CLAY BLOCK FIRING SYSTEM SOLUTIONS – THERMAL BARRIER TB3049

Model number	TB3049
Dimensions H×W×L	100 × 204 × 415 mm (3.9 × 8.0 × 16.3 in)
Weight empty	7.2 kg (15.8 lb)
Weight full	10 kg (22 lb)
Water capacity	2.81 (0.7 gal)
Temperature duration	@ 150 °C (302 °F) 45 hours
	@ 200°C (392°F) 30 hours
	@ 250 °C (482 °F) 18 hours



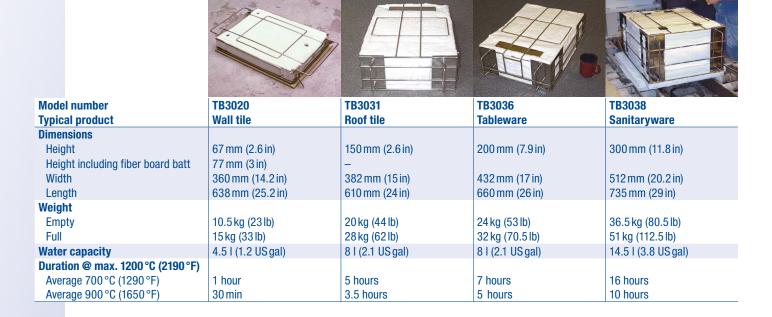
Thermal barrier with "in kiln" antenna

HYDRO KILN BARRIER TB3043

Model number	TB3043
Dimensions H×W×L	177 × 224 × 269 mm (7 × 8.9 × 10.6 in)
Thermocouple types available	K
Maximum water temperature	65°C (149°F)

Note: Not to be used where process has pre-heat/drying section immediately before kiln. Contact DATAPAQ for thermal barriers to use where pre-heat/dryers precede the kiln.

SOLUTIONS FOR ROLLER HEARTH KILN – THERMAL BARRIER



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_KT_Spec systems, Rev. A





