Furnace Tracker®

Innovative low-height thermal barriers for use in high temperature applications

Datapaq has been manufacturing in-process temperature profiling systems for more than 25 years. The expertise gained during this time has been used together with some innovative new technologies to create a range of ultra low-height thermal barriers. Ranging from only 29 to 60 mm (1.14 to 2.36 in) high, this range of barriers is unique; no other products on the market are able to offer such high performance in this compact and easy-to-use format.

ADVANCED DESIGN BRINGS BENEFITS

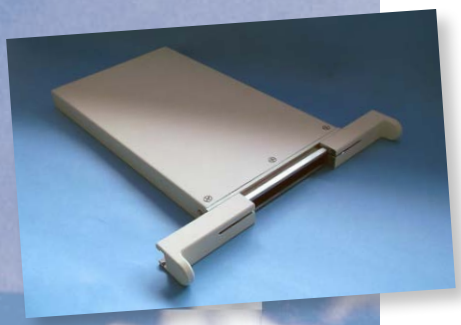
- The thermal design is all carried out using Computational Fluid Dynamics CAD software. This enables us to optimize the insulation and heat capacity of the units, maximizing thermal performance in the process.
- The outer case is fabricated using robot laser welding technology. This ensures that there is no distortion even when used in the most extreme of processes.
- The combined heatsink and logger tray is a feature of all the barriers and is designed to be easily removed at the end of the process, ensuring that the logger can be recovered safely even when the surface of the barrier is still hot.
- The outer ceramic coating is widely used in the race car industry to coat the exhaust systems to protect the composite body from the heat of the gases. Datapaq uses this same technology to protect the outer case from the heat of the furnace, guaranteeing that it will not oxidize even when used frequently at extreme temperatures – ensuring long and stable performance.

29 MM (1.14 IN) LOW-HEIGHT HIGH TEMPERATURE THERMAL BARRIER (4 CHANNEL), TB7528

This ultra low-height barrier is designed for use in both conveyor and oscillating furnaces, which are typically used for glass tempering. The TB7528 is designed to be used with the DQ1840 4 channel logger. It features an external ceramic coating and has a combined logger tray with solid steel heatsink. These features ensure it is easy-to-use, will not contaminate furnace rollers and will have a long service life.

Weight	8 kg (15.4 lb)
Dimensions (H x W x L)	29 x 218 x 429 mm (1.14 x 8.58 x 16.9 in)

Thermal Duration			
Temperature °C	400	600	700
Temperature °F	752	1112	1292
Duration (minutes)	18	10	8



29 MM (1.14 IN) LOW-HEIGHT HIGH TEMPERATURE THERMAL BARRIER (10 CHANNEL), TB7729

Ultra low-height, 29 mm (1.14 in), and designed for use in both conveyor and oscillating furnaces typically used for the tempering of glass. The TB7729 is designed to be used with the DQ1842 10 channel logger. It features an external ceramic coating and has a combined logger tray with solid steel heatsink. These features ensure it is easy-to-use, will not contaminate furnace rollers and will have a long service life.

Weight 9 kg (17.6 lb)

Dimensions (H x W x L) 29 x 256 x 461 mm (1.14 x 10.08 x 18.15 in)

Thermal Duration			
Temperature °C	400	600	700
Temperature °F	752	1112	1292
Duration (minutes)	18	10	8

40 MM (1.57 IN) HIGH TEMPERATURE THERMAL BARRIER (6 CHANNEL), TB7540

Low-height, 40 mm (1.57 in), and designed for use in high temperature conveyor furnaces the TB7540 is used in a range of applications. It is designed to be used with the DQ1860 or DQ1800 6 channel data loggers. It features an external ceramic coating to prevent oxidation, resulting in long and stable thermal performance. The logger is housed within a combined heatsink and tray that is easily removed in one simple operation when the barrier exits the process.

Weight 10 kg (19.8 lb)

Dimensions (H x W x L) 40 x 253 x 316 mm (1.57 x 9.96 x 12.44 in)

Thermal Duration			
Temperature °C	400	600	850
Temperature °F	752	1112	1562
Duration (minutes)	33	25	15

60 MM (2.36 IN) HIGH TEMPERATURE THERMAL BARRIER (6 CHANNEL), TB7360

The TB7360 is a 60 mm (2.36 in) high thermal barrier designed for use in very high temperature short duration processes and has found use in applications from steel coil annealing to coating applications in the touch screen industry. The TB7360 thermal barrier is the largest in the range and provides outstanding performance in extreme processes. It has been proven in processes operating up to 1200 °C (2192 °F) and provides unmatched thermal performance. It is designed for use with the steel cased DQ1800 6 channel type K data logger.

Weight 10 kg (22 lb)

Dimensions (H x W x L) 60 x 194 x 355 mm (2.36 x 7.64 x 13.98 in)

Thermal Duration			
Temperature °C	400	600	850
Temperature °F	752	1112	1562
Duration (minutes)	50	35	22

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_FT_TB LH HT_Rev. A1