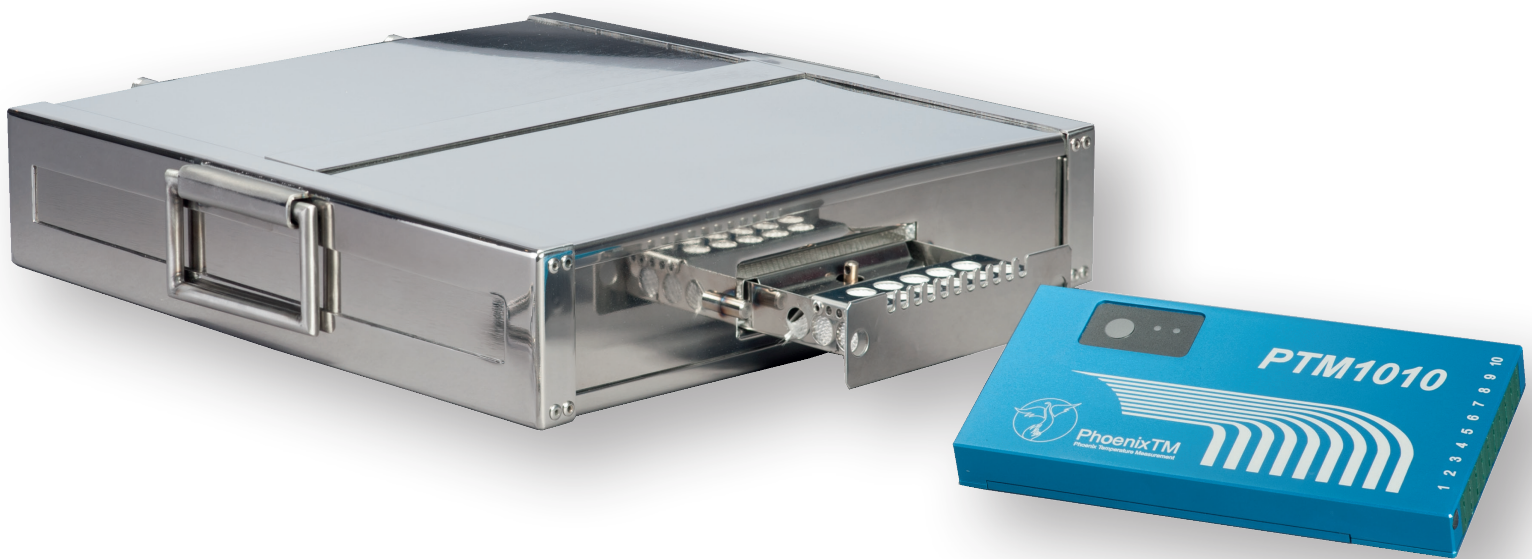




PhoenixTM
Phoenix Temperature Measurement

TS27 Series

Thermal barrier



Datasheet

Where experience counts :





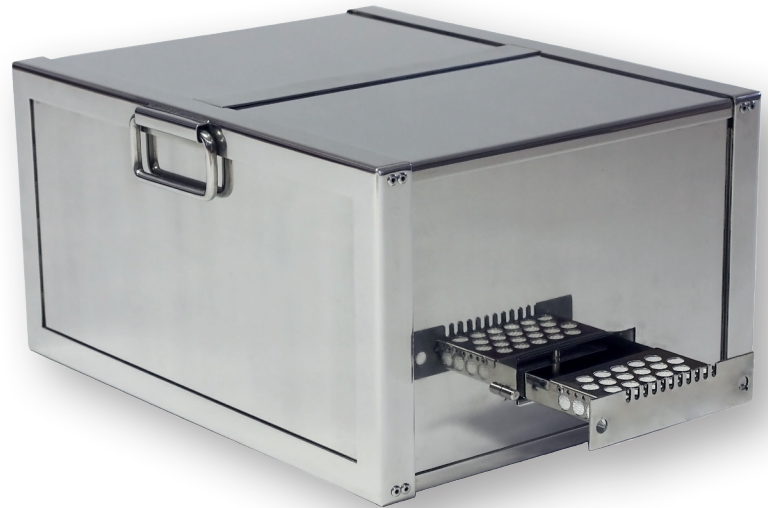
TS27 Thermal Barriers

TS27 thermal barriers are normally engineered for specific customer applications where there is a requirement for a system to operate in a high temperature process where clearance inside the furnace is limited.

The thermal barrier keeps the data logger at a safe operating temperature by using evaporative water technology. Protected by a high operating temperature alloy steel, microporous insulation layers encase a water jacket which in turn surrounds the data logger. The ratio of insulation to the volume of water in these barriers has to be carefully calculated to optimize the barrier performance given the limitations of the heat treatment process.

As evaporative technology is used in these barriers, they are generally not used in processes where a controlled atmosphere (nitrogen, carburizing, etc.), or a vacuum is used.

Typical processes include: steel heat treatment, ceramic tableware decorating, aluminum reheat, etc.



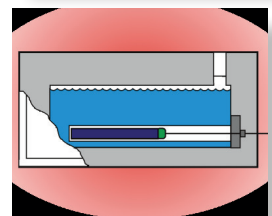
Standard TS27 range performance:

Type	TS27-080-1	TS27-165-1	TS27-171-1	TS27-310-1
500C / h	3.0	11.0		
600°C / h	2.2	9.0	17.5	39.0
700°C / h	1.8	8.3		32.0
800°C / h	1.3	6.0	11.0	24.0
900°C / h				21.0
1000°C / h				17.0
Height / mm	80	165	171	310
Width / mm	275	350	440	400
Length / mm	450	459	630	500
Weight / kg	10.6 / 13.9	18.8 / 28.0	28.3 / 37.0	36.0 / 51.5

10 and 20 channel versions available.



Evaporation technology combined with high efficiency insulation for ultimate size / performance ratio.



High temperature materials and highest quality workmanship!



Need a thermal barrier to suit your application? Tell us your requirements and if it's possible we'll design and manufacture it for you! We are constantly developing and looking forward to any new challenge.

PhoenixTM Ltd
25 Earith Business Park
Meadow Drive,
Earith, Cambridgeshire
PE28 3QF, UK
Tel.: +44 1353 223100



www.Phoenixtm.com
sales@phoenixtm.com