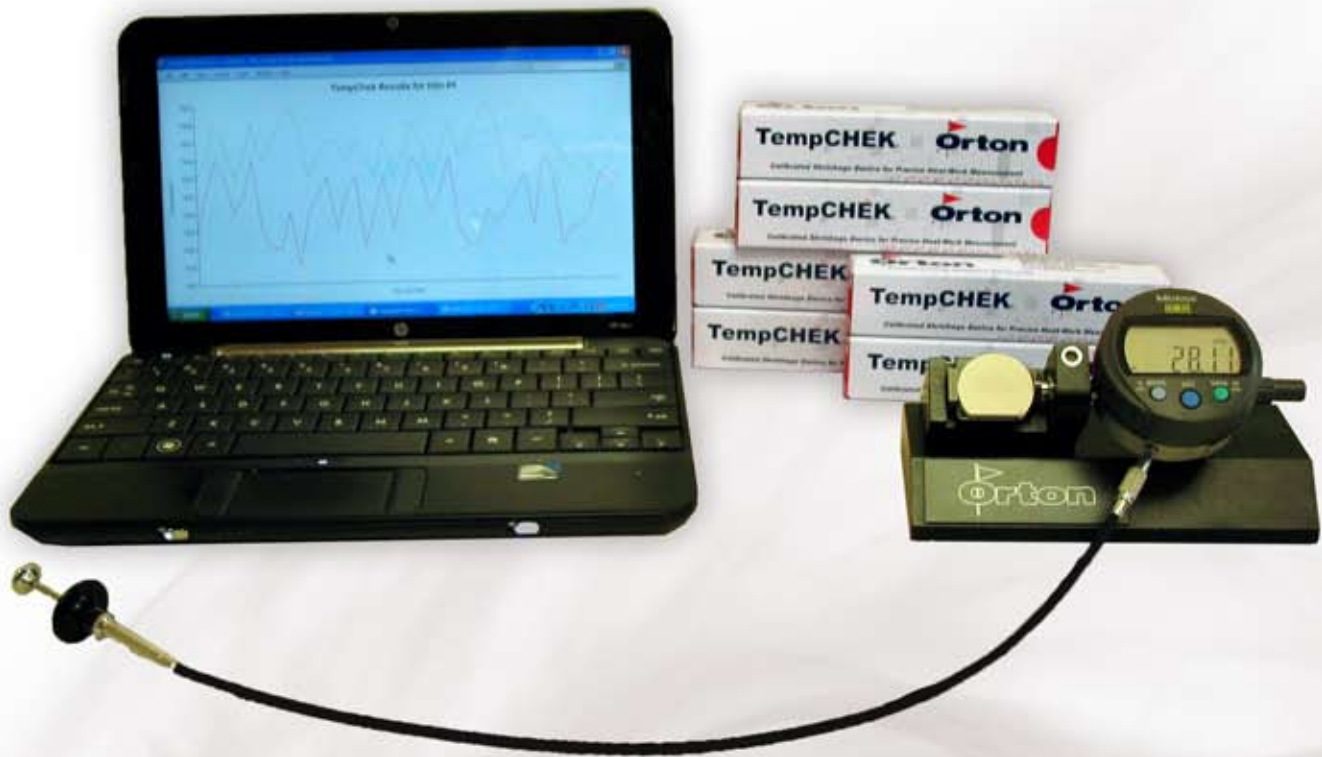


TempChek Monitoring System



TempCheks are used to monitor and record the heatwork produced (the effect of time and temperature) inside kilns. TempCheks are made from a blend of material that exhibit predictable dimensional change (shrinkage) over a relatively wide temperature range (200-300 $^{\circ}$ C). Each batch of TempCheks is carefully calibrated to provide reproducible information from batch to batch.

TempCheks can be used in both periodic and tunnel kilns. After firing, TempCheks are measured with a digital micrometer to the nearest .01mm. The fired dimension can be input into Orton's TempTrak software program where it will be converted to a TempChek temperature and graphically displayed or the dimension can be converted manually by using the lookup table available for each batch of TempCheks.

By comparing TempChek results in various locations, you can determine the temperature uniformity inside the kiln. By establishing a scheduled interval TempChek monitoring run through your kiln and utilizing the Orton TempTrak software you can determine the natural variation of your kiln and also spot any temperature trends that may be developing before they cause product defects.

One of the biggest advantages of the TempChek system is that it is a complete monitoring system. You determine the locations you want to monitor, place the fired TempCheks in the measuring gauge, send the dimension to the computer and the temperatures are automatically graphed and listed by location.

