

Pro-16 Application Note

Benchtop Batch Ovens

Application

Benchtop batch ovens

The Challenge

For OEMs to meet end users' varying demands for control functionality without adding manufacturing costs and associated inventory.

The Solution

The Pro-16 temperature controller and profiler. Its built-in programmer functionality enables manufacturers of benchtop batch ovens to meet end users' varying demands with just one control component.



The Pro-16 temperature controller from West Control Solutions fulfils an increased number of demands in functionality for industrial benchtop batch ovens.

Benchtop batch oven applications

Benchtop batch ovens are used in a variety of industries, including in the manufacture of plastics and for the heat treatment of metal electrical components.

Typical heat processing applications include varnish baking, paint stoving, rubber curing, resin bonding and mould heating.



temperature control. Generally, the oven manufacturer would be required to use different temperature control instruments depending on the end users' application needs. For manufacturers this can mean increased inventory and less influence to negotiate improved pricing due to economies of scale.

Why choose a Pro-16 controller?

Thanks to a sophisticated new controller from West Control Solutions, it is now possible to meet the temperature control demands of a range of batch oven applications using just one temperature control product.

The new Pro-16 controller provides traditional single loop control for standard applications whilst also including an in-built programmer with 16 segments and up to 16 profiles. Furthermore, the Pro-16 can handle 2 PID sets enabling gain scheduling to be used for increased control in more challenging applications. This

The challenge

Traditionally, manufacturers of benchtop batch ovens have developed a range of ovens to meet the varying temperature control demands of individual applications. For example, a batch oven for a simple heating application would likely incorporate a standard single loop temperature controller, whereas a more demanding application such as varnish baking may require a batch oven with a profiling capability for its



advanced level of functionality in a 1/16 DIN size controller enables a broad range of requirements to be met with the one single device.

By holding just one model of controller in stock that can handle all requirements, oven manufacturers can achieve significant cost savings for inventory. The Pro-16 also eliminates the need for dual manufacturing cells, and standard work as well as the downtime associated with switching between different devices during production operations.

The competitive pricing of the Pro-16 temperature controller enables a manufacturer of benchtop batch ovens to meet the demands of a wider variety of applications with no greater build cost for its temperature control component. This obviously provides a significant competitive advantage to the manufacturer, as well as opening up a larger target market through the increased number of application requirements that it can meet.

The Pro-16 is also well specified in terms of I/O, with up to four digital inputs and six outputs. The instrument has plug-in terminals meaning the oven manufacturer can easily create the necessary wiring before the controller itself arrives. Importantly, the terminals and quick release



panel clamp also make unit removal and maintenance much easier for the end user.

Measuring just 48mm x 48mm, the flexible Pro-16 is the only temperature controller of its kind to provide so many features in such a compact casing, offering oven manufacturers a premium product at a competitive price.



The new Pro-16 controller provides both traditional single loop control and also including an in-built programmer. By holding just one model of controller in stock, oven manufacturers can achieve significant cost savings for inventory.



Contact us

WEST
Control Solutions



Email: Enquiries@West-CS.com
Website: www.West-CS.co.uk



Telephone: +44 (0)1273 606271
Fax: +44 (0)1273 609990



Address: The Hyde Business Park
Brighton, East Sussex
BN2 4JU
United Kingdom



Austria: +43 (0) 2236 691 121
China: +86 22 8398 8098
France: +33 (1) 77 80 90 40
Germany: +49 (0) 561 505 1307
UK: +44 (0) 1273 606 271
USA: +1 800 866 6659

For more details on the complete product range from West Control Solutions please contact your local distributor or visit www.West-CS.co.uk.