



Process Control The Complete Solution For Heat Treaters

The Control System Division has been recognised as the UK market leader in automatic process control for the Heat Treatment Industry for the last 15 years.

Since 1985, we have successfully installed the latest advanced process control systems in the UK, Ireland, mainland Europe and the Far East. Our trading partnerships include Bodycote, British Timken, Dowty Aerospace, Ford Motor Company, Lucas Group, Messier Dowty, Rover Group, TTI Group and many other leading contract and in-house heat treaters.

The Division is staffed by an experienced, qualified engineering team with over 50 years combined electrical, metallurgical and furnace know how. This is central to the successful integration of modern process control systems to existing furnace plant, including Ipsen, Wellman, British Furnaces, Efco and Wild Barfield.

Control systems can be applied to all controlled atmosphere and vacuum applications. The development of advanced techniques for the control of carbon bearing atmospheres has placed the Company at the leading edge of technology.



- Continuous development of carbon sensors, resulting in the latest 'EuroSensor' probe.
- Advanced carbon controllers and programmers, with the unique 'Process Factor' based carbon calculation and 'Probe Care' features.
- The 'next generation' carbon control 'Ultracarb' three gas infra red (IR) oxygen probe compensation system.
- 'GasPro 300-C' portable low cost 3-gas analyser for gas carburising applications.

In addition to the supply of advanced control systems, we offer a comprehensive after sales service including probe testing and repair, instrument calibration and on-site servicing.

For more information

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Process Control

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Atmosphere Sensors

- 'EuroSensor' carbon sensor.
- 'Lambda' probe remote sensing oxygen probe.
- Gas Pro IR analysers for CO, CO₂ and CH₄
- Ammonia dissociation analyser for nitriding



Systems

- 'UltraCarb 100 Lite' Single point 3-gas IR probe compensation system.
- Integrated process control systems for carburising, nitriding, sintering, brazing and vacuum.
- Complete furnace control panels, including plc.
- Atmosphere gas mixing panels.



Controllers and Programmers

- '100-series' set point controller for carbon, dewpoint and oxygen.
- '200-series' carbon controller/cycle programmer.
- '400-series' advanced level dual loop programmable controller.

After Sales Service

- Probe inspection and repair
- Instrument repair and calibration
- On-site service and commissioning