



What are Bullers Process Control Discs (BPCDs)?

- **Mantec Technical Ceramics**, with its HQ in Stoke-on-Trent in the heart of the UK ceramics region, is the home of the globally renowned and industry standard **Bullers Temperature Control Devices**. Bullers Process Control Discs (BPCDs) are essential for reliable monitoring of ‘**heat work**’ or ‘**heat energy**’ in a kiln or furnace. Heat work is the effect of temperature over time or how well ‘**cooked**’ or ‘**processed**’ ceramic products are.
- BPCDs operate within a full range of firing temperatures from **1250°C to 1770°C (2822°F to 3218°F)**

Temperature Range		Product Code
High Temperature	1250°C - 1550°C (2282°F - 2822°F)	BPCD-HT3.5
Very High Temperature	1500°C - 1770°C (2732°F - 3218°F)	BPCD-VHT3.5

The most common applications for BPCDs are in the firing of:

- Technical Ceramics
- Advanced Ceramics
- Refractories
- Ceramic Insulators
- Ferrites
- Single & Multi-layer Capacitors (MLCC)
- Grinding Wheels

The Benefits of Bullers Process Control Discs (BPCDs)

- BPCDs are an essential part of any **Quality Assurance System** to ensure the accurate firing of ceramic products.
- BPCDs experience the same ‘**thermal journey**’ as your ceramic ware so are an early indicator of ‘**under fired**’ product that enables preventative action to be taken to ensure the correct product quality.
- BPCDs are sensitive to changes in ‘**Heat Work** or ‘**Heat Energy**’ and their contraction will depend on the combination of temperature, rate of firing and length of soaking time. **Thermocouples alone cannot and will not provide you with this vital information!**
- BPCDs offer a **rapid, low-cost, consistent** and **reliable** method of accurately monitoring kiln performance and aid in establishing optimum firing regimes that:

Maximise Yields • Increase Productivity • Decrease Waste • Improve Profitability

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Place • Measure • Improve

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