

## DESIGN & DEVELOPMENT REQUEST

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<b>DATE</b>  1 <sup>st</sup> March 1999	<b>TELEPHONE NUMBER</b>  01535 634542

<b>DESCRIPTION/SPECIFICATION/BRIEF</b>
<p style="text-align: center;"><b>Modification to Microstim DB Stimulator</b></p> <p><b>Introduction:</b></p> <p>The "Mode" controller TMS77C82 used in the Microstim DB is to be withdrawn from the market in July 1999. A modification is required to introduce a replacement microcontroller.</p> <p><b>Brief:</b></p> <ol style="list-style-type: none"><li>1. Choose replacement microcontroller.</li><li>2. Produce new programme to suite.</li><li>3. Design modification to circuit board.</li><li>4. Provide drawings for manufacture of circuit board.</li><li>5. Provide updated circuit board layout drawing for user manual.</li><li>6. Provide updated circuit diagram for user manual</li><li>7. Provide updated component list for user manual</li></ol>

<b>TRIAL REQUIREMENTS</b>
Test and validate modified Microstim DB under normal working conditions in the hospital theatre environment.

## **Manufacturers Note**

IC1 IC TMS77C82 was discontinued by the IC manufacturer and has been replaced with IC1

PIC 16F84. This change involved other component Changes.

DB03: DB12: DB17: DB18: are no longer required

DB41 : 6 MHz crystal has been replaced with DB59: 4 MHz crystal

DB32: 40 pin IC socket has been replaced with DB60 : 18 pin socket

The software has been re-written so that both models have identical outputs, functions and specifications.

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