- 2 The output level should be such that an adequate audio output is heard, from the ultra-sound monitor, with the simulator's level control set to mid-point.
- The selected BPM LED should flash at that beat rate.
- There should be an "Auto" mode which cycles through all BPM rates. Each rate should be output for 30 seconds.

Electronic APGAR Timer Project.

Hardware Specification.

Display

Display type:

Reflective/transflective:

Reflective.

Reflective.

No.

Number of digits:

Separator for Mins/Secs:

Digit height:

On-board driver:

CCD.

Reflective.

Reflective.

Ro.

Processor

Type: PIC with on-board LCD driver. Software resilience: On-board hardware watchdog timer.

Case

Type: Handheld plastic. Colour: Preferably white.

Display cutout: Yes.
Accepts keypad: Yes.
Battery compartment: Yes.
Spare battery compartment: Preferably.

EMC protected:

Keypad

Type: Membrane.

Base colour:

Number of keys: 3.

Key functions/legend:

Key 1:Start.Key 2:Stop.Key 3:Reset.

Key colours:

Key 1: Green. Key 2: Red.

Key 3:

Sounder

Fitted: Yes.

Type: Low current piezo.

Battery

Type: PP3

Low battery indication: Flashing 17mm high message "Lo Batt" plus intermittent

sounder.

Battery life:

Operating temperature

Range: 0 - 54 degrees C.

Company legend

Text:

Peter Anderson 27th January 2004 20th February 2004 1st March 2004

Initial specification.
Keypad details added.
Maximum operating temperature specified by battery.