NATIONAL 5 ENGINEERING SCIENCE · UNIT E7

Microcontrollers

Where microcontrollers are used, why they beat hard-wired circuits for many jobs, and how inputs and outputs connect to their pins.



BY THE END OF THIS UNIT YOU CAN

- give domestic, commercial and industrial uses of microcontrollers
- state advantages of a microcontroller over a hard-wired system
- describe what input and output pins do
- connect a switch and an output device to pins

IN THE EXAM

Microcontroller questions are short (1–2 marks) but often sit beside a flowchart question. Pin connections are worth 1 mark each.