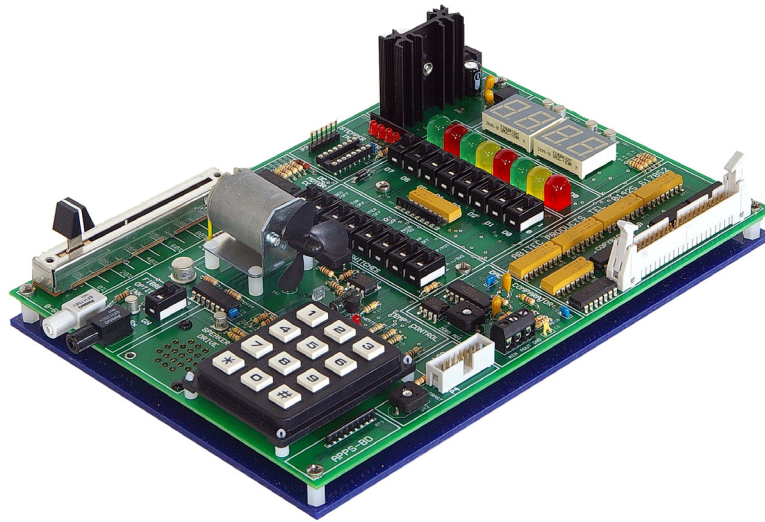


24-200 BOARD

Microprocessor trainers



Applications Board 24-200 - is a highly versatile board, compatible with all our micro trainer hardware or a PC. It is ideal for teaching the basics of microprocessor programming and applications such as decision making, D/A and A/D conversion, open and closed-loop control, delay loops, sub-routines & event counting. It covers the techniques of micro control of delay loops, sub-routines & event counting. Fibre optics, keyboard entry, digital sound production, dc motor control, infra-red sensing, heating and cooling and visual displays.

The Liquid Crystal Display Module 24-202 provides extensive programming possibilities in the use of this type of display for announcements and warning messages, as used on small instruments or large public displays such as those found at stations and airports etc. The techniques for rolling, flashing or alternating messages can be practised.

Optional applications as extensions to the 24-200 are available – Stepper Motor 24-201 and Liquid Crystal Display 24-202.

Inputs

- Optical fibre receiver
- 8-bit digital switch bank
- Numerical keypad
- Optical speed & position sensor
- Temperature sensor
- Slide potentiometer
- External analogue input

Outputs

- Optical fibre transmitter
- dc motor
- 8LEDs
- Heater
- 2 dual segment displays
- Analogue output
- Speaker

Subject Areas

- Inputting & outputting data
- Subroutines & delays
- The digital to analogue conversion (DAC)
- Analogue to digital conversion (ADC)
- Successive approximation ADC
- Multiplexing seven segment display
- Scanning the keypad
- Control of a dcmotor
- dc motor speed control with IR sensor
- Temperature control
- Fibre optic link