Microcomputer Control Equipment



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LV-200

LabVIEW[™] I/O Interface Lab



LV-200 LabVIEW[™] I/O Interface Lab is a platform of hardware/software development. It offers a variety of I/O and peripheral devices used in real life and adopts National Instruments LabVIEW[™] (G programming language) as development software. Data transfer between LV-200 Lab and computer is performed via USB interface. LV-200 also provides a comprehensive Experiment Manual which describes the operation of I/O circuits and peripheral devices as well as the programming of control programs (Virtual Instruments) using G programming language.

Features

- 1. Data transfer and communication between LV-200 Lab and computer via USB interface
- 2. Digital output devices: LED BAR and 7-segment LED display provided for digital data display
- 3. Digital input devices : Data switches provided for digital data input
- 4. A/D and D/A converters applied for input and output applications of analog signal and digital data
- 5. Providing a number of hardware such as stepping motor, EEPROM and LCD for control application of peripheral devices
- 6. Comprehensive Experiment Manual including a detailed description of software and hardware
- 7. DC power supplies available for internal and external circuits
- 8. All experiments can be run on a trial-version LabVIEW[™] software.

Specifications

- 1. 8-Bit LED bar x 1
- 2. 7-segment LED display x 2
- 3. 5-bit data switch x 1
- A/D converter x 2 ADC0804, 8-bit successive approximation A/D converter
- 5. D/A converter x 2 DAC0800, 8-bit current-output D/A converter
- 6. Stepping motor driver ULN2803, octal high-voltage high-current darlington transistor arrays
- 7. Stepping motor 7.5-degree step angle
- 8. LCD display 20x2 character LCD
- 9. Memory 93C66, 4096-bit (256 x 16-bit) serial EEPROM
- 10. 5 I/O ports: input ports A and B, output ports C, D, and E
- 11. Built-in power supply

Input AC power : 100V~240V

Output DC power: +12V,-12V,+5V, +3.3V

List of Experiments

- 1. Digital output control
- 2. Digital input control
- 3. Digital I/O control
- 4. A/D converter control
- 5. D/A converter control
- 6. Stepping motor control
- 7. LCD control
- 8. EEPROM control
- 9. Advanced applications:

Counter, stepping motor controller using event structure, LCD advertising display from front panel, LCD advertising display from EEPROM, two-channel oscilloscope, digital voltmeter, acquiring data and storing in EEPROM, two-channel function generator

System Requirements

- 1. Software requirement: LabVIEW™ 8.6 or higher
- 2. Personal computer

Accessories

- 1. Experiment manual
- 2. LabVIEW[™] introduction
- 3. AC power cord
- 4. USB cable
- 5. Connection leads and plugs: 1set
- 6. IDC cable (5 x 2 pin) : 1 set
- 7. Installation CD

(including USB driver program, trial-version LabVIEW™, NI-VISA and example programs)