



LabVIEW offers a graphical programming approach that helps users visualize every aspect of application, including hardware configuration, measurement data, and debugging. This visualization makes it simple to integrate measurement hardware, represent complex logic on the diagram, develop data analysis algorithms, and design custom engineering user interfaces.

43215B 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 43215B Lab and computer is performed via USB interface.

43215B 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.

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. Advance Applications:

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

Features

- A/D and D/A converters provide signals to analog/digital hardware device for various input and output applications.
- Hardware such as stepping motors, EEPROMs and LCDs as well as external hardware can be used for control application.
- DC power supplies are provided for internal and external circuits.
- All experiments can be run on a trial-version LabVIEW software.

Other Information

1. Data transfer and communication between 43215B 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

Note: Specifications are subject to change.

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