

**Technical Specification:**

- Power Supply Unit
- Fixed DC power supply
- Output voltage : +5V, -5V, +12V, -12V
- Max. output current: +5V/3A, -5V/0.3A, +12V/1A, -12V/0.5A
- With output overload protection
- A/D Converter: 1x12-bit ADC
- Input voltage range: 0~+5V
- Time pulse frequency: 3.58MHz
- Control signals: status, pole, over range indication
- Interface Port
- USB interface: type B
- D/A Converter: 1 x 12-bit DAC
- Analog output& control
- OUT+:+DC OFFSET 0~ +4.096V unipolar
- OUT-:-DC OFFSET 0-4.096V unipolar
- OUT BP: DC OFFSET -2.048V~ +2.048V bipolar
- Preset Level : 4-digit thumbwheel switch, Max. value: 4095
- Status Display & DCV
- Input voltage measurement

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Range: 2000mV, 20V
- Accuracy: $\pm 0.05\%$ of reading + 4 counts
- Input impedance: 10M ohms
- Display: 4 1/2 digits
- Mode Selector: manual/single-chip
- Buzzer: Max. input signal voltage: +12V
- Micro Controller Signals: 5 control line outputs 10. Model Holder: X4
- Potentiometer: 100K ohms B-type
- Comparator: V-, V+ input, Vo output
- Differential Amplifier: V-, V+ input, Vo output
- Instrumentation Amplifier: V-, V+ input, Vo output, adjustable gain
- Experiment Modules
- 2mm plugs and sockets used throughout
- Comprehensive experiment manual
- Modules secured in plastic housings
- Connected by 2mm-2mm test leads 5. Dimension: (255 x 165 x 30)mm
- Circuit symbols, blocks and components printed on the surface of each module
- Power supplied from either power module or through main unit
- Graphic User Interface Software
- System Requirement
- PC: 1GHz or faster 32-bit (x86) or 64-bit (x64) processor, 1GB RAM, 1GB more free disk space
- OS: Windows XP/Vista/7/8/10
- Specifications & Features
- Real time acquire signal
- Adjustable acquire frequency
- Current, Min and Max value displayed 4. Data save, load and print function
- X-axis: TIME/DIV
- Y-axis VOLT/DIV
- Storage format: excel format
- List of Modules
- General Sensor Module
- General Transducer Module
- AD590 Transducer Module
- Thermocouple Transducer Module
- PT100 Temperature Transducer Module

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- Humidity Transducer Module
- Load-Cell Transducer Module
- LVDT Transducer Module
- Photovoltaic Transducer Module
- Counter Module
- Linear Scale Module
- Infrared Transducer Module
- Multi-Channel Remote Controlled Module
- Ultrasonic Transducer Module
- Pressure Transducer Module
- VFC Module
- FVC Module
- List of Experiments
- D/A and A/D Converters
- Characteristics of Sensors
- Photo transistor
- Photo interruptor
- Magnetic sensor
- Pyroelectric detector
- Thermistor
- Reed switch
- Inclination sensor
- Limit switch
- Mercury switch
- Vibration switch
- Condenser microphone
- Dynamic microphon
- General-Purpose Transducers
- Gas/smoke detector
- Ethanol detector
- Digital magnetic detector
- Analog magnetic detector
- AD590 Temperature Transducer
- Characteristics and transduction circuit of AD590
- The application of AD590 - Temperature controller
- The application of AD590 - Digital thermometer

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- Thermocouple
- Thermocouple characteristics
- Transduction circuit of thermocouple
- The application of thermocouple - Digital thermometer
- PT100 Temperature Transducer
- R vs. T characteristic of PT100
- Transduction circuit of PT100
- The application of PT100 - Fire alarm
- The application of PT100 - Digital thermometer
- Humidity Transducer
- Impedance characteristic of humidity sensor
- Transduction circuit of humidity sensor
- The application of humidity sensor - Digital hygrometer
- Load-Cell
- Characteristics and transduction circuit of Load-Cell
- The application of Load-Cell - Overweight alarm
- The application of Load-Cell - Digital scale
- Linear Variable Differential Transformer (LVDT)
- Characteristics of LVDT
- The application of LVDT - Digital position indicator
- Photovoltaic Cell
- Photovoltaic characteristics
- Photovoltaic transducer circuit
- The application of photovoltaic - Auto-Streetlamp controller
- The application of photovoltaic - Digital illuminometer
- Linear Scale
- Linear scale characteristics and transducer circuit
- Distance measurement of linear scale
- Infrared Transducer
- Infrared transducer DC characteristic test
- Infrared transducer AC characteristic test
- The application of infrared transducer - Event counter
- The application of infrared transducer - Remote controller
- Ultrasonic Transducer
- Ultrasonic transducer characteristic test
- The application of ultrasonic transducer - Space disturbance detector

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- Pressure Transducer
- Transduction circuit of pressure sensor
- The application of pressure transducer
- V/F and F/V Converters
- VFC converter
- FVC converter
- The application of V

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