



Description:

Data acquisition (DAT) is the process of measuring an electrical or physical phenomenon such as voltage, current, temperature, level, flow, pressure or sound with a computer. Data Acquisition Trainer consists of A/D converters and D/A converters to measure the input from different sensors. Data Acquisition Trainer is accompanied with a powerful Graphical Software to represent the values, acquired from sensors, in real time.

Technical Features:

- Processor: 8-bit RISC based
- Digital In: 16 Channel
- Digital Out: 16 Channel
- Analog In: 8-Channel Multiplexed
- A/D Converter: 10-Bit
- Analog Out: 8-Channel
- D/A Converter: 8-Bit Serial SPI
- Analog Voltage Source: +10V, $\pm 10V$ Adjustable
- Relay: +12V SPDT
- Display: 2X 7-Segment with BCD-7-Segment Decoder/ Driver
- Switches: 2X 8-Bit DIP Switches
- PC Interface: USB-UART with Data Acquisition Software

Power Supply:

- DC Supply: $\pm 12V$, $\pm 5V$
- Variable DC Supply: 1V to 10V.
- 230 V $\pm 10\%$, 50 Hz

Dimensions: 13.5 x 14 x 6 in

Weight: 3.5Kg



Features:

- A self contained Trainer
- Transducers installed on-board
- Control Circuits Installed
- Functional Blocks indicated on
- Protection Circuits Installed
- Built in DC Power Supply
- Devices Installed

Experiments:

- Introduction to Data Acquisition
- Familiarization with Applications Software
- Verification of Digital Input and Digital Output Channels
- Verification of Analog Input and Analog Output Channels

Accessories:

Power Cord, User Manual, 2mm banana Patch Cords.

