

Data Acquisition and Control Tutorial

PC-based Data Acquisition System Overview

In the last few years, industrial PC I/O interface products have become increasingly reliable, accurate and affordable. Because of this, PC-based data acquisition and control systems are widely used in industrial and laboratory applications like monitoring, control, data acquisition and automated testing.

Selecting and building a DA&C (Data Acquisition and Control) system that actually does what you want it to do requires some knowledge of electrical and computer engineering. This tutorial gives a brief introduction to what DA&C systems do and how to configure them. It covers:

- Transducers and actuators
- Signal conditioning
- Data acquisition and control hardware
- Computer systems software

Transducers and Actuators

A transducer converts temperature, pressure, level, length, position, etc. into voltage, current, frequency, pulses or other signals.

Thermocouples, thermistors and resistance temperature detectors (RTDs) are common transducers for temperature measurement. Other types of transducers include flow sensors, pressure sensors, strain gauges, load cells and LVDTs which measure flow rate, pressure variances, force or displacement.

An actuator is a device that activates process control equipment by using pneumatic, hydraulic or electrical power. For example, a valve actuator opens and closes a valve to control fluid rate.

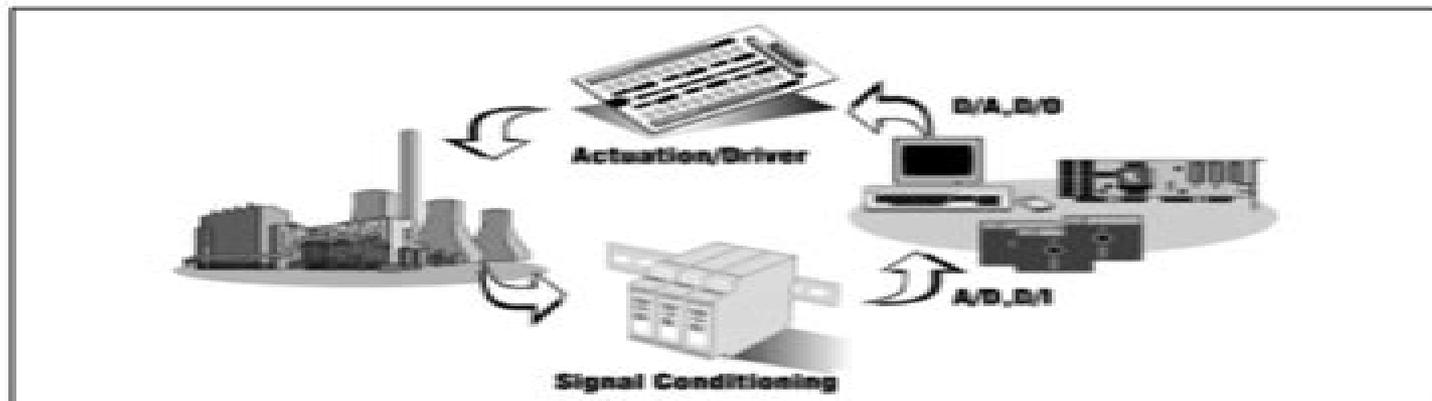
Signal Conditioning

Signal conditioning circuits improve the quality of signals generated by transducers before they are converted into digital signals by the PC's data-acquisition hardware. Examples of signal conditioning are signal scaling, amplification, linearization, cold-junction compensation, filtering, attenuation, excitation, common-mode rejection, and so on.

One of the most common signal conditioning functions is amplification. For maximum resolution, the voltage range of the input signals should be approximately equal to the maximum input range of the A/D converter. Amplification expands the range of the transducer signals so that they match the input range of the A/D converter. For example, a $\times 10$ amplifier maps transducer signals which range from 0 to 1 V onto the range 0 to 10 V before they go into the A/D converter.

Data Acquisition & Control Hardware

Data acquisition and control hardware generally performs one or more of the following functions: analog input, analog output, digital input, digital output and counter/timer functions. This section will discuss each function and list some considerations that are important when you select a data acquisition and control system.



The layout of a typical PC-based data acquisition system

Data Acquisition Tutorial Hi

Judd E. Hollander



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1. Understanding the eBook Data Acquisition Tutorial Hi
 - The Rise of Digital Reading Data Acquisition Tutorial Hi
 - Advantages of eBooks Over Traditional Books
2. Identifying Data Acquisition Tutorial Hi
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Data Acquisition Tutorial Hi
 - User-Friendly Interface
4. Exploring eBook Recommendations from Data Acquisition Tutorial Hi
 - Personalized Recommendations
 - Data Acquisition Tutorial Hi User Reviews and Ratings
 - Data Acquisition Tutorial Hi and Bestseller Lists
5. Accessing Data Acquisition Tutorial Hi Free and Paid eBooks
 - Data Acquisition Tutorial Hi Public Domain eBooks
 - Data Acquisition Tutorial Hi eBook Subscription Services
 - Data Acquisition Tutorial Hi Budget-Friendly Options
6. Navigating Data Acquisition Tutorial Hi eBook Formats

- ePub, PDF, MOBI, and More
 - Data Acquisition Tutorial Hi Compatibility with Devices
 - Data Acquisition Tutorial Hi Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Data Acquisition Tutorial Hi
 - Highlighting and Note-Taking Data Acquisition Tutorial Hi
 - Interactive Elements Data Acquisition Tutorial Hi
 8. Staying Engaged with Data Acquisition Tutorial Hi
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Data Acquisition Tutorial Hi
 9. Balancing eBooks and Physical Books Data Acquisition Tutorial Hi
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Data Acquisition Tutorial Hi
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Data Acquisition Tutorial Hi
 - Setting Reading Goals Data Acquisition Tutorial Hi
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Data Acquisition Tutorial Hi
 - Fact-Checking eBook Content of Data Acquisition Tutorial Hi
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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