



# Instrumentation

By Franklyn W. Kirk, Thomas A. Weedon, Phillip Kirk

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**Instrumentation** By Franklyn W. Kirk, Thomas A. Weedon, Phillip Kirk

*Instrumentation* provides a detailed description of the operation of instruments and their controls. The textbook addresses instrument operation and application, industrial communications from traditional pneumatic to state-of-the-art wireless communication systems, final control elements, and safety systems. Communication systems include fieldbus, Hart<sup>®</sup>, and Industrial Ethernet. Safety systems introduced include common safety devices and systems such as relief valves, rupture discs, burner control systems, hazardous location classifications, enclosures, and safety instrumented systems (SISs).

Large, full-color illustrations are used to illustrate fundamental theory and operating principles of instruments used in industry. Common applications used in control of manufacturing and other processes show how to install instruments in control systems.

This edition of *Instrumentation* has been updated to include information on wireless communications. A new chapter Position Measurement, was added to enhance coverage of factory automation.

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## **Instrumentation By Franklyn W. Kirk, Thomas A. Weedon, Phillip Kirk Bibliography**

- Sales Rank: #934305 in Books
- Published on: 2010-01-01
- Original language: English
- Number of items: 1
- Dimensions: 1.30" h x 8.50" w x 10.90" l, 4.65 pounds
- Binding: Hardcover
- 691 pages

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