

Three-Channel Data Acquisition | Fundamentals of Data Acquisition

The screenshot displays an eLearning course interface. On the left, a 'Table of Contents' lists objectives for 'Introduction to Data Acquisition' and 'Digital Chart Recorder Touch Screen'. The main content area shows two slides. The first slide, 'Figure 6: Digital Chart Recorder Touch Screen', features a photograph of a digital chart recorder with a touch screen displaying a 'Main Menu' with icons for 'Home', 'Setup', 'Data', 'Reports', and 'Help'. A hand is shown touching the screen. The second slide, 'Figure 10: Rear of Digital Chart Recorder', shows a photograph of the rear panel of the device with various ports and connectors labeled: 'BODY', 'ANALOG POWER CONNECTION (RANGE: 0V-20V DC)', 'ANALOG INPUT TERMINATION (RIP TO INPUT)', 'ALARM DELAYS ON (RIP TO SLOT 4) (OPTIONAL)', 'COMMUNICATION PORT (ETHERNET)', 'ANALOG INPUT SLOT (OPTIONAL)', 'ANALOG INPUT SUPPLY OUTPUT', 'PHYSICAL POWER CONNECTION (RIP TO SLOT 1) (OPTIONAL)', 'INTERNAL ELECTRONIC POWER', 'EMERGENCY STOP', and 'LIMIT SWITCH (OPTIONAL)'. Below the slides, the course title 'eLearning Course: E33302' is displayed.

eLearning Course: E33302

Amatrol's Three-Channel Data Acquisition eLearning teaches the fundamentals of data acquisition. Data acquisition systems consist of equipment used to receive, record, and analyze process data. This course teaches how to use chart recorders to collect and display process data. This course also covers how to use computer software to view and manipulate the data.

Data Acquisition eLearning

What are the Four Types of Chart Recorders?

Four common types of chart recorders are vertical, circular, flatbed, and digital. Each is an electrical or electromechanical device that uses pens to create graphs of sensor output signals over time.

- **Vertical Chart Recorders** - Vertical chart recorders, also called strip chart recorders, consist of a roll of paper that passes under one or more pens. The recorder is oriented vertically, creating a graph from the bottom to the top of the paper.
- **Flatbed Chart Recorders** - Flatbed chart recorders are horizontal recorders that operate in a manner similar to a vertical chart recorder to create graphs of the sensor output. They typically have fewer than five channels.
- **Circular Chart Recorders** - Circular chart recorders use a single sheet of paper that passes under one or more electromechanical pens. The pens produce a circular graph of the input signal. Each revolution occurs over a specified amount of time.
- **Digital Chart Recorders** - Digital chart recorders, also called paperless chart recorders, are the latest advances in the recorder industry. Instead of using electromechanical pens to create a graph of the input on paper, digital chart recorders create graphs on a digital display screen.

Three-Channel Data Acquisition eLearning Allows Online Access to Curriculum

Amatrol's [eBooks](#) look like a real book and allow users to flip between pages with ease. Enhanced with features such as keyword searches and zoom controls that enable a user to quickly locate and view information, these eBooks are a fantastic learning tool. Amatrol's eBooks are available online and can be used by anyone with access to Amatrol's Learning Management System (LMS). Optionally, if you choose to use your own LMS, these eBooks are SCORM compatible to allow smooth integration into your current training system. Combined with our already extensive library of interactive multimedia titles, which are also SCORM compatible, users can now complete their entire course work online!

Additional Info

Requires:

- Computer (see [Computer Requirements](#))

Options:

- Three-Channel Data Acquisition Learning System ([T5553-R1A](#))
-

Address

**Amatrol
2400 Centennial Blvd
Jeffersonville, IN 47130**

Contacts

**email: contact@amatrol.com
phone: (800) 264 8285**