# Solutions for Electromechanical Maintenance and Troubleshooting





# The DI-730 System at a Glance

DVMs and oscilloscopes are limited in channel count and can't record waveform information. Your chart recorder can, but it's slow, bulky, and expensive to buy and maintain. So you use all three, juggling them in and out of the troubleshooting process until the problem is solved. Is there a better way?

From steel mills to paper mills, from energy systems to transportation systems, the words "Get the DATAQ!" are synonymous with fast and cost-effective electromechanical troubleshooting of all kinds. One instrument replaces three traditional instruments by leveraging the flexibility of the PC you already have. Acquire, measure, record, and analyze with more speed and power than you ever thought possible, and with point-and-click efficiency that requires no programming.



## The Products We Replace



The Applications We Address

### **Your Requirements**

Multiple channels

**Measurement Flexibility** 

### **DI-730 Solutions**

#### 0.40\*

Multiple channels	8+16*
Wide measurement range	10mV to 1 kV full scale
Fine resolution	14 bits allows you to detect the smallest change on any range
Input protection	1 kV isolation per channel
Wide signal frequency range	DC to >10,000 Hz
Continuous recording	Record to your PC for seconds, hours, days, weeks
Unlimited triggered snapshots	Pre- and post-trigger support
Multi-tasking	Simultaneously record, view, analyze
PC Connectivity	
Standard PC port support	Connects to the printer, USB, or Ethernet port of any PC
Excel-compatible data	Combine data with any Excel spreadsheet
Word-compatible graphics	Combine waveform graphics with reports
E-mailable data files	Transmit data to anywhere, from anywhere
Ready-to-run software	Absolutely no programming is ever required
Expandability	Signal conditioning for any industrial measurement
Portability	Fits in an overnight bag with room to spare
	Use it with the laptop PC you already take in the field
Affordability	Buy three or more -730s for the price of one chart recorder

8 wide measurement range and 16 general purpose channels

# **Product Overview**

#### Start with our Model DI-730:

#### 8 wide measurement range channels

- ±10mV to ±1000V FS measurement range
- Six programmable measurement ranges per channel
- ±1000V DC or peak AC input-to-output isolation
- Input protection to 1500V DC or peak AC

#### 16 non-isolated, general-purpose channels

- ±1.25 to ±10V FS measurement range
- Four programmable measurement ranges per channel

#### Intelligent over-sampling features that allow real time

- Waveform filtering
- Waveform peak and valley detection
- Waveform averaging

#### **Flexible PC connection options**

- Printer port
- Ethernet
- USB

#### Fast sample rates

Ranging from sub-Hertz to 200,000 Hz

#### Enhance measurement flexibility with our Model DI-75B backpack:

- Uses common 5B-style, isolated amplifier modules for use with:
  - Thermocouples
  - RTDs
  - True RMS measurements
  - Process current measurements
  - Strain gage and strain gage-based transducers
  - ICP-type accelerometers
  - String pots
  - Frequency/RPM measurements
  - AC/DC voltage measurements

### Put it all together with WinDaq data acquisition, playback, and analysis software:

- Ready-to-run, no programming is ever required
- Real time scaling into calibrated engineering units
- Zero-delay, real time display of 1 to 32 channels
  - Y vs. t
  - X vs. Y
- Stream to disk for minutes, hours, or days
- Triggered-mode data acquisition with pre- and post-trigger options
- Automatic time- and date-stamping
- Cursor-based waveform amplitude and timing measurements
- Push-of-a-button waveform statistics
- Fast and Discrete Fourier Transformations
- Acquire, review, and analyze data simultaneously



Model DI-75B

## **Our Customers**

Around the clock, around the world, someone is using a DI-730 to solve tough electromechanical problems and keep vital systems running. Here's a list of some of our larger customers, and the industries they serve:

### AC/DC Drive and Motor Service/Installation

Avtron Manufacturing Crown ESA EXISE **Rockwell International** Siemens-Westinghouse **Taurus Controls GE Industrial Systems** Flanders Electric Motor

#### Mining Products/ Machinery

**Black Butte Coal Bucyrus International** Coteau Mines John Deere Metso Minerals **P&H Mining Equipment**  **Transportation Systems** Alstom Transportation Bay Area Rapid Transit (BART) Bombardier Transportation

#### General Industrial/ Manufacturing

Armstrong World Industries **BAE Industrial** Cessna Aircraft **Clopay Corp Delco Electronics** Honeywell Hoover Company Lincoln Electric Procter & Gamble **Steel and Aluminum Mills AK Steel** Alcoa Allegheny-Ludlum Steel Bethlehem Steel Citisteel USA I/N Tek Integrated Mill Systems International Steel Group (formerly LTV Steel) **ISPAT** Inland J&L Specialty Steel Pittsburgh Steel The Timken Company Weirton Steel Wheeling-Pittsburgh Steel

#### Energy Systems **GE Power Systems** Liebert Rolls Royce Energy

#### Paper/Printing Mills and Equipment

**Blue Heron Paper** Goss Graphic Systems Kimberly Clark Newspaper Agency Paper Converting Products Weyerhauser Corp.

Semiconductor Fabrication/Equipment **Applied Materials** Intel Varian Semiconductor

# Learn More...

### **DATAQ** Instruments

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