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 DI-730 System at a Glance**

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**The Products We Replace**

<table>
<thead>
<tr>
<th>Channels</th>
<th>DVM</th>
<th>1</th>
<th>1-8</th>
<th>2</th>
<th>8+16*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Record Time</td>
<td>n/a</td>
<td>Limited by Paper</td>
<td>Snap Shot</td>
<td>Unlimited</td>
<td></td>
</tr>
<tr>
<td>Portability</td>
<td>Excellent</td>
<td>Poor</td>
<td>Good</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>PC-Based Records</td>
<td>No</td>
<td>No</td>
<td>Good</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Resolution</td>
<td>Excellent</td>
<td>Poor</td>
<td>Poor</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Unlimited Triggered Snap Shots</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

**The Applications We Address**

**Your Requirements**

**Measurement Flexibility**

- Multiple channels
- Wide measurement range
- Fine resolution
- Input protection
- Wide signal frequency range
- Continuous recording
- Unlimited triggered snapshots
- Multi-tasking

**PC Connectivity**

- Standard PC port support
- Excel-compatible data
- Word-compatible graphics
- E-mailable data files
- Ready-to-run software

**Expandability**

- Signal conditioning for any industrial measurement

**Portability**

- Fits in an overnight bag with room to spare

**Affordability**

- Buy three or more -730s for the price of one chart recorder

**DI-730 Solutions**

- 8+16* 10mV to 1 kV full scale
- 14 bits allows you to detect the smallest change on any range
- 1 kV isolation per channel
- DC to >10,000 Hz
- Record to your PC for seconds, hours, days, weeks
- Pre- and post-trigger support
- Simultaneously record, view, analyze

**Connects to the printer, USB, or Ethernet port of any PC**

**Combine data with any Excel spreadsheet**

**Combine waveform graphics with reports**

**Transmit data to anywhere, from anywhere**

**Absolutely no programming is ever required**

* 8 wide measurement range and 16 general purpose channels
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
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)

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...

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Fax: (330) 666-5434 • E-mail: info@dataq.com

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