

EZ-DAQ™

Basic 8-Channel Data Acquisition for the Laboratory

Benefits:

- ❖ **Eight 16-bit analog inputs for eight channels of real-time data acquisition**
- ❖ **10 V dc instrumentation excitation supply**
- ❖ **mV, V, mA instrumentation output types**
- ❖ **Multiple instrumentation output ranges**
- ❖ **Instrument calibration in English or SI units**
- ❖ **Sample rate of 10 per second**
- ❖ **Simple USB connection to the computer.**
- ❖ **Program storage and instrument calibrations stored in nonvolatile memory**
- ❖ **Bright touch screen for improved visibility and easy data entry. 3.8-inch, 256 color TFT display.**
- ❖ **View live test data on color screen**
- ❖ **Windows-based software available for data viewing and exporting**
- ❖ **Easy data “dump” to Excel for performing custom data reduction/manipulation**
- ❖ **Real-time graphing capabilities for each test**
- ❖ **Quick sample interval changing**

Description:

Now you can collect data easily from your current laboratory equipment with the EZ-DAQ System. EZ-DAQ is an 8-channel, 16-bit data acquisition unit* that is easy to use and configure. The EZ-DAQ can perform locally all data acquisition functions (sampling, signal conditioning, A/D conversions), and when connected to a PC, can capture data and display real-time graphs. Designed specifically for the needs of today's soils labs, the unit is flexible, reliable, and robust.

The bright, color screen is easy to read and has a high performance CPU for ultra-fast screen refresh. The screen is rugged for use in dirty, dusty conditions and incorporates a touch-panel for easy data entry. No openings to get clogged or jammed.

In addition, connections for up to eight industry-standard sensors are conveniently located on the rear of the unit.

* EZ-DAQ is not a data logger because it does not store data.



EZ-DAQ device showing, in this photograph, live data for three tests and six sensors. Data from up to eight sensors may be acquired and displayed simultaneously using the EZ-DAQ.

These connections supply the common 10 V dc excitation required by most of today's sensors. Along with the excitation, the connections also handle the sensor return signals. The flexibility designed into the EZ-DAQ System allows for the return signals to be configured in mV, V, or mA, and a multitude of ranges.

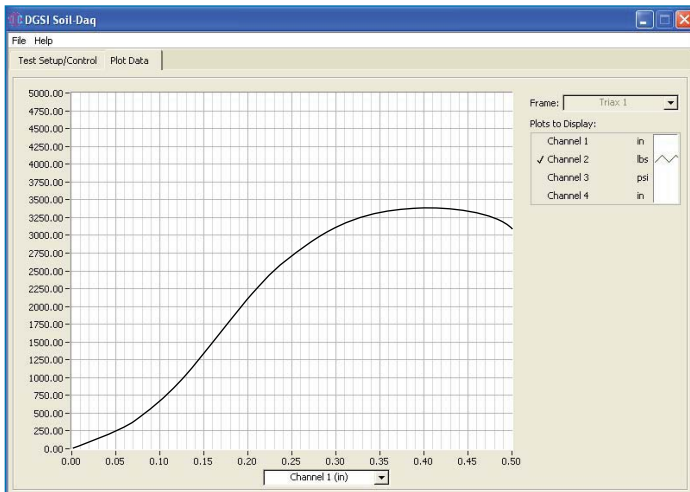
The EZ-DAQ-Soft software, which is included with the unit, is highly configurable and simple to use. It gives the ability to display up to eight active channels of data simultaneously on a PC. The system can support as many as six individual tests with each test capable of having its own sampling rate. The test files are saved as delimited text which may be imported easily in a spreadsheet program or simply opened as an ASCII text file.

Communication from the EZ-DAQ to the user's PC is done with standard Ethernet protocol. Set up is uncomplicated because it uses a static IP address.

SPECIFICATIONS	
FUNCTIONAL SPECIFICATIONS:	
Display:	
Size	3.8 inch
Type	Touch screen LCD, color, TFT (thin film transistor) technology.
Colors	256 Colors (No blink) 64 Colors (3 speed blink)
Backlight	Maintenance free LED back lit
Resolution	320x240 pixels
Brightness	Control 16 levels of adjust available via touch panel
Touch Panel	Resistive Film (analog) 1024 x 1024 resolution
Memory - Application	Flash EPROM 6 MB
Memory - Data Backup	Lithium battery backup
Ethernet Interface	IEEE 802.3u, 10BASE-T/100BASE-TX, RJ-45 jack
Analog Input:	
Resolution	16-bit
Channels	8 differential
Input Type	mV, V, mA
Input Range	±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, ±20 mA, 4~20 mA
Rear Connections:	
Supply Power (1)	AC Power inlet IEC320 110/220 V ac, 50/60 Hz
Ethernet Interface (1)	IEEE 802.3u, 10BASE-T/100BASE-TX, RJ-45 jack
Sensors (8)	Bulkhead connections (Amphenol type) Number of contacts – 5 Contact arrangement – IEC130-9 Rated voltage – 150 V Current rating – 5 A / +400°C
Instrumentation Supply:	10 V dc

SPECIFICATIONS (continued)	
FUNCTIONAL SPECIFICATIONS (continued):	
Environmental:	
Ambient Operating Temp.	0 to +50°C
Storage Temperature	-20 to +60°C
Computer requirements:	
	Windows® 2000/XP compatible, Pentium® III or better, 512 MB RAM, 30 MB available hard drive space. Software not compatible with Windows® 95, Windows® ME. Not recommended for Windows® XP-Home Edition. Installation requires Administrator access.
GENERAL SPECIFICATIONS:	
Mechanical:	
Dimensions (l x w x h)	9.5 in x 6.37 in x 4.75 in
Weight	10 lb
Electrical:	
Supply Power	110/220 V ac, 50/60 Hz
LIMITATIONS:	
1. EZ-DAQ is not capable of performing data reduction.	
2. EZ-DAQ is not compatible with WinSAS software.	

ORDERING INFORMATION		
	EZ-DAQ System, 110/220 V ac, 50/60 Hz. Includes EZ-DAQ device, Ethernet/USB adaptor, 5-ft Ethernet cable and EZ-DAQ-Soft software for PC.	
E-8000E	As above, with US Customary units	11 lb
E-8000M	As above, with SI units	11 lb



Example of EZ-DAQ-Soft real-time graphing capabilities.

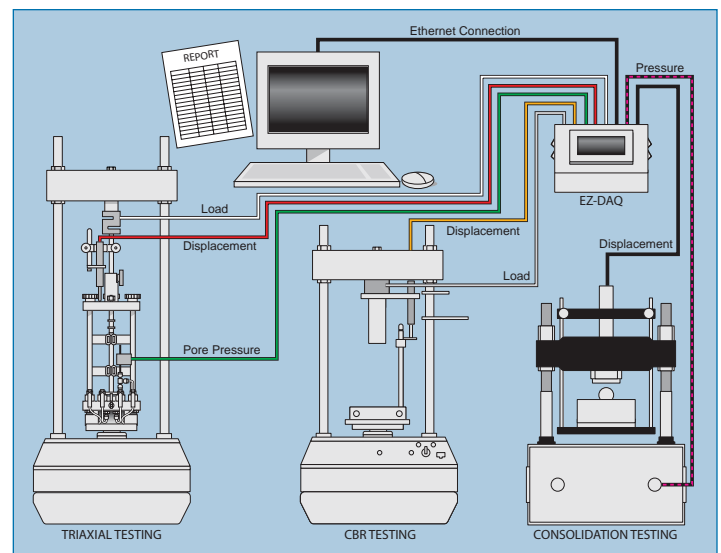


Illustration shows EZ-DAQ acquiring data from three tests while utilizing seven channels. Up to eight channels may be used and data from up to six tests may be acquired simultaneously.