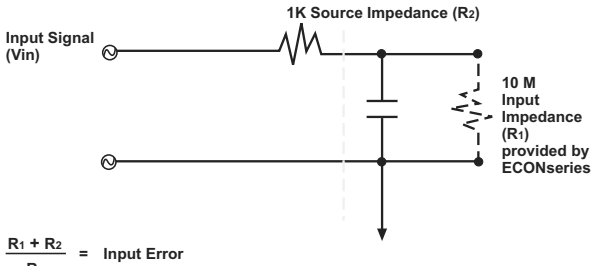


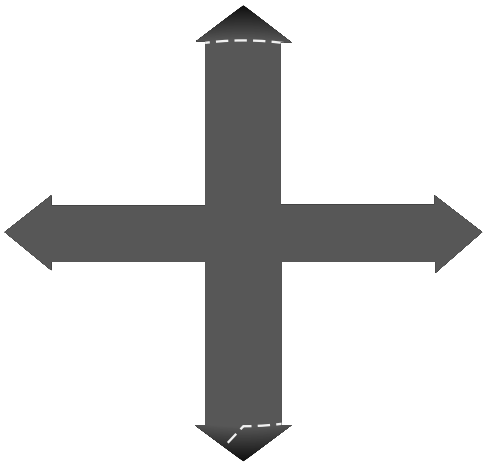
$\frac{R_1 + R_2}{R_1}$ = Input Error

OTHER BOARDS

$\frac{R_1 + R_2}{R_1} = \frac{144K + 1K}{144K}$ = 0.69% error

ECONseries

$\frac{R_1 + R_2}{R_1} = \frac{10M + 1K}{10\ M}$ = [redacted]



ECONseries

BUS: USB

Type: Economy, Mini-Instruments

Overview

GO! Application

Throughput

Analog Inputs

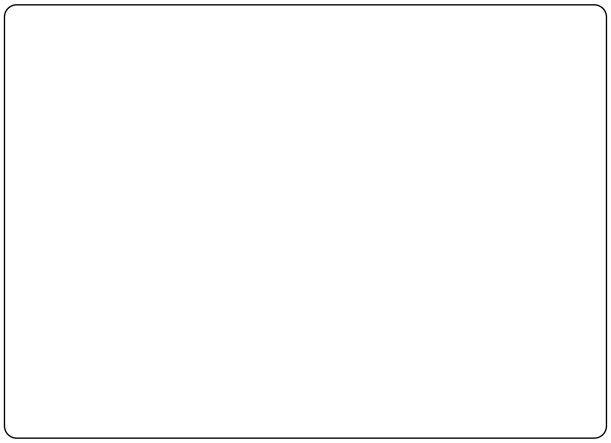


Figure 13 Use the Oscilloscope tab of the GO! application to stream, plot, and analyze data from up to eight single-ended analog input channels. The software automatically adjusts for resolution and input signal range. You can scroll, pan, zoom, or freeze live signals; select the trigger type, level, and channel; and print or save your data to an Excel file.

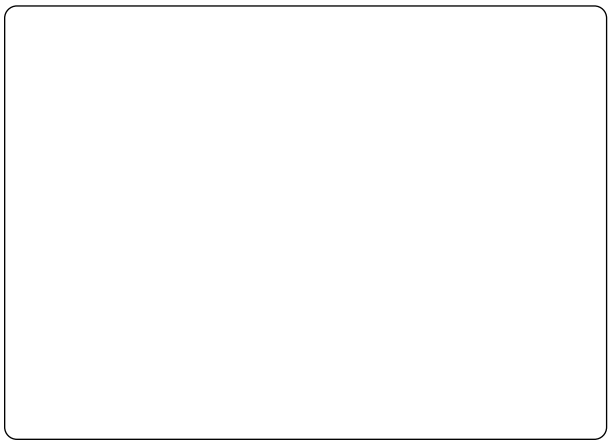


Figure 14. Use the Chart Recorder tab of the GO! application to view and record up to 32,000 data points from up to eight single-ended analog input channels. Data is logged to an Excel file.

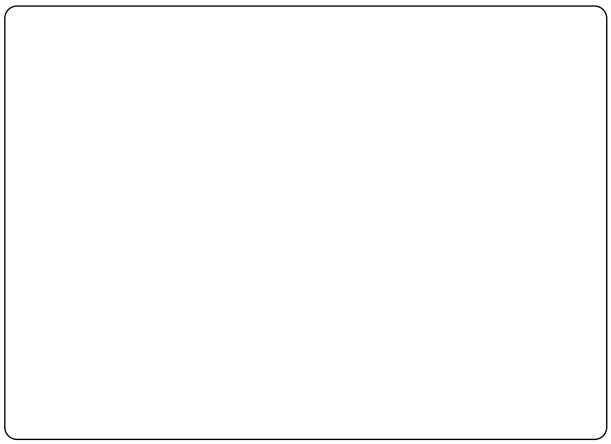


Figure 15. Use the Voltmeter tab of the GO! application to measure and view data from up to eight analog input channels in a 5-digit digital display. You can choose to display the maximum or RMS value.

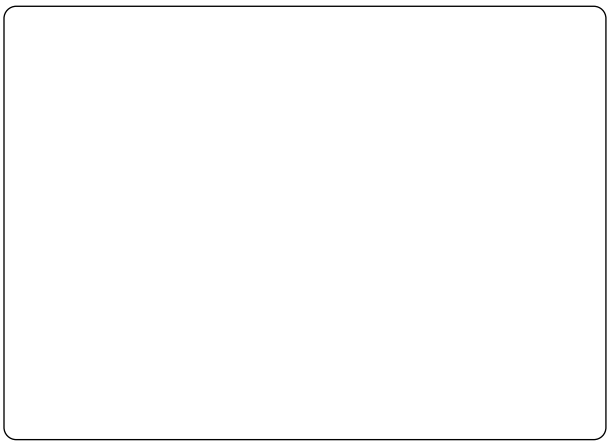


Figure 16. Use the File Viewer tab of the GO! application to load a previously saved Excel file. You can scroll, zoom, pan, or print your data.

Waveform Generation

Gain	DT9812-2.5V	DT9812-10V, DT9816 DT9813-10V, DT9814-10V
1	0 to 2.44 V	±10 V
2	0 to 1.22 V	±5 V
4	0 to 0.61 V	±2.5 V
8	0 to 0.305 V	±1.25 V
16	0 to 0.1525 V	—

Note: The GO! Application uses a gain of 1. Gains of 2, 4, 8, and 16 (DT9812-2.5V only) are supported at the driver level.

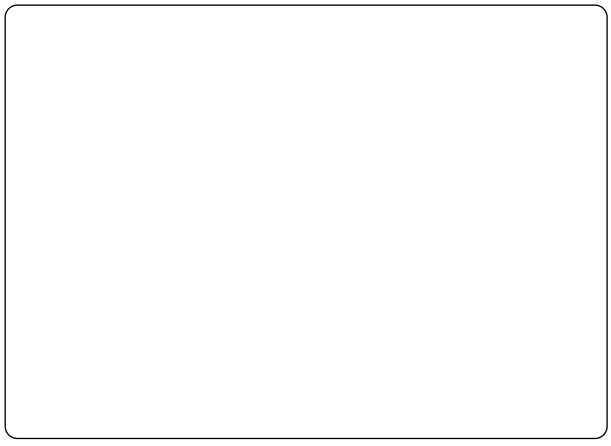


Figure 17. Use the Waveform Generator tab of the GO! application to generate DC, sine, rectangle, triangle waveforms from one or both analog output channels. You can select the duty cycle, frequency, amplitude, and offset of the signal.

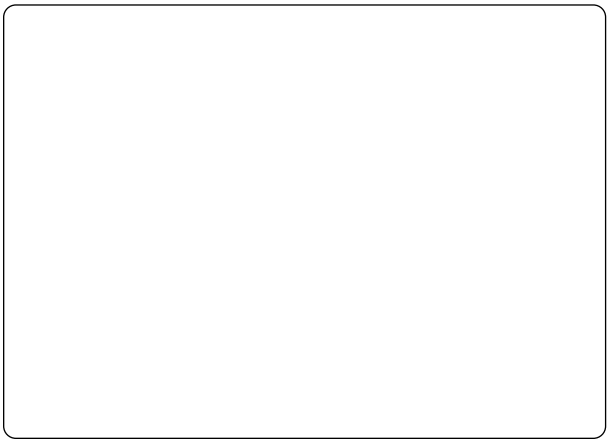


Figure 18. Use the Digital Input tab of the GO! application to monitor the status of the digital inputs using LEDs. The GO! application supports up to 16 digital inputs.

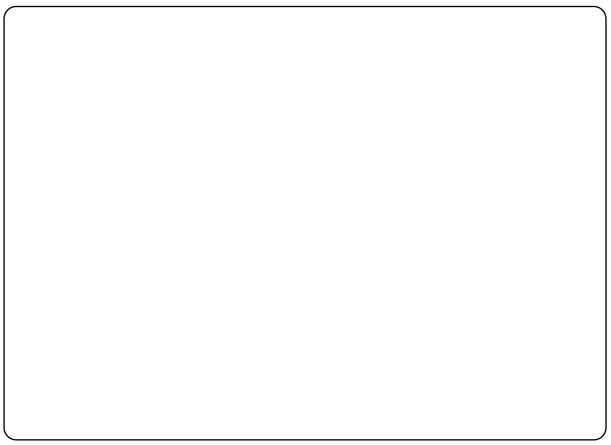


Figure 19. Use the Digital Output tab of the GO! application to control the state of the digital output lines using switches. The GO! application supports up to 12 digital outputs.

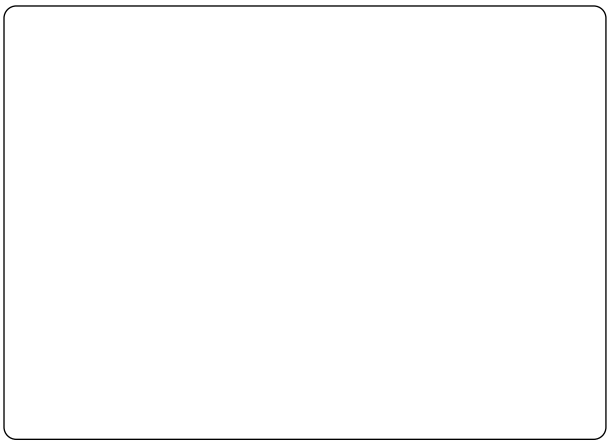


Figure 20. Use the Counter tab of the GO! application to count pulses from the counter/timer for 1, 2, or 5 seconds or for an unlimited time and view the count in a 9-digit display.

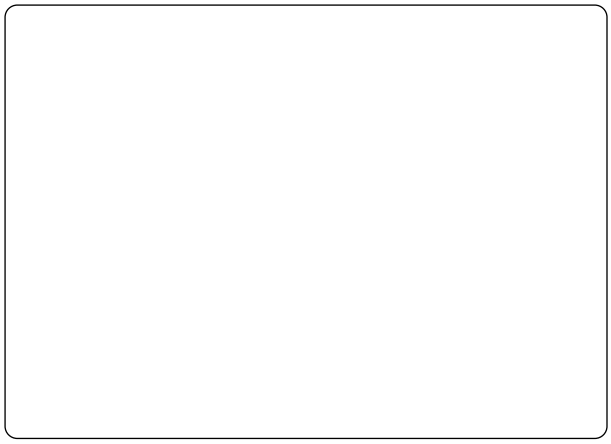
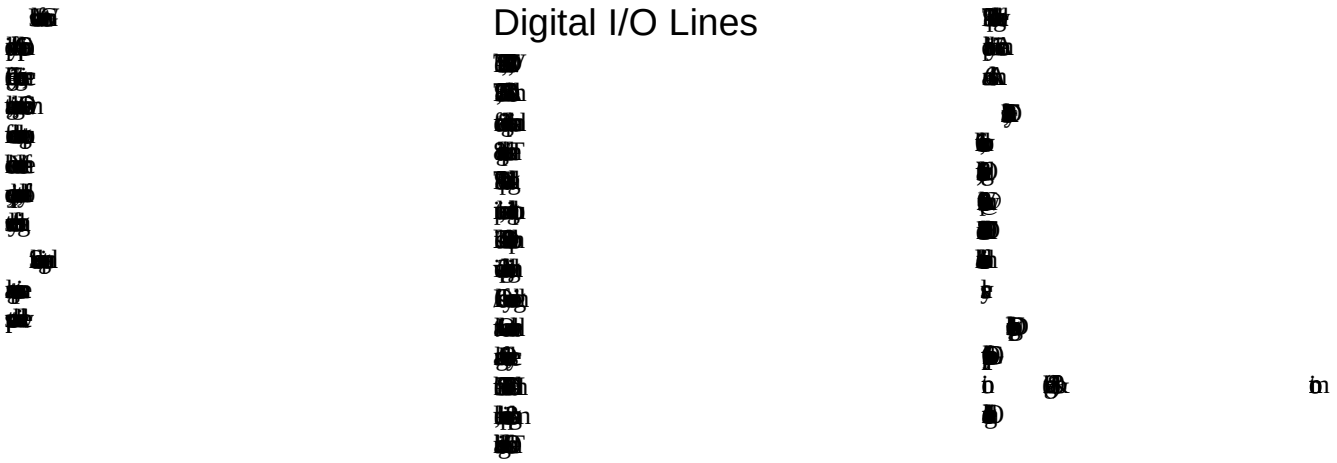


Figure 21. Use the Rate Generator tab of the GO! application to control the frequency of a continuous pulse output signal from the counter/timer.



Multifunction Counter/Timers

Flexible Clocks and Triggers

Synchronizing Multiple Modules

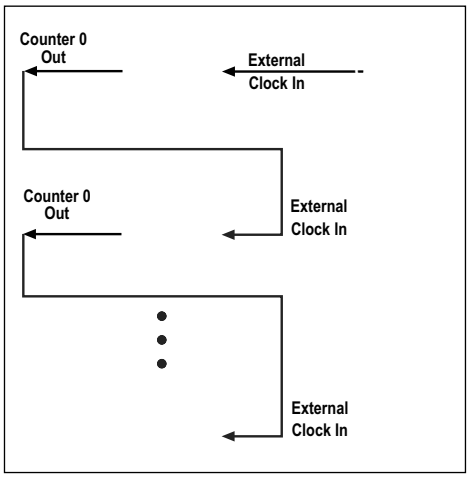


Figure 22. You can synchronize the analog I/O operations of up to 64 devices by connecting them together

Easy Signal Connections

ECONseries

BUS: USB

Type: Economy, Multifunction Instruments

Creating Custom Applications

8 mini-instruments, no programming

Visual Studio Development Tools for displaying signals

Access the visualization and analysis capabilities of MATLAB with our hardware

Access the power of our boards through LabVIEW

Aquire, plot, analyze, and save data to disk at up to 2 MHz per channel ... without writing any code

Graphical programming, drag & drop, no code, no wires

is a high-performance, ready-to-run application that lets you acquire, plot, analyze, and save data to disk at up to 2 MHz per channel without writing any code. quickDAQ supports applications from temperature measurement to high-speed testing and analysis.

Cross-Series Compatibility Saves Programming Time, Protects Your Investment

ECONseries User Manuals

Technical Support

ECONseries Modules

- DT9810
- DT9812-2.5V
- DT9812-10V
- DT9813-10V
- DT9814-10V
- DT9816
- DT9816-A
- DT9817
- DT9817-H
- DT9817-R

System Requirements

- Windows 2000/XP Professional Edition operating system.
- USB Ports - one or more (version 2.0 or 1.1).
- CD-ROM drives - one or more.

Software

All software, including the GO! Application, is provided on the Omni CD that ships with the module.

Accessories

- DIN Mount Kit.