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Self-Paced Training

Training Hardware

DAQ Signal Accessory

The DAQ Signal Accessory is ideal for demonstrating or teaching PC-based data acquisition and control. With the DAQ Signal Accessory, you can demonstrate and test the use of analog, digital, and counter/timer functions of DAQ devices. In addition, the DAQ Signal Accessory is flexible enough for classroom and laboratory use as well as to test and prototype DAQ applications in industry.



We use the DAQ Signal Accessory for many data acquisition exercises in our hands-on courses. We recommend using the DAQ Signal Accessory if you plan to use the LabVIEW Basics I and II course manual kits, LabWindows/CVI Basics I and II course manual kits, or any CD based training modules involving data acquisition.

Note: The DAQ Signal Accessory requires an appropriate cable to connect to the DAQ device.

Ordering Information

NI DAQ Signal Accessory	777382-01
SH6868 cable, 1 m (68-pin E Series)	182419-01
NB1 cable, 1 m (50-pin MIO)	180524-10
NI Instrument Simulator	
U.S. 120 VAC	777369-01
Universal Euro 240 VAC	777369-11
X2 GPIB cable, 1 m	763061-01
NI Training Accessory Kit	778049-01

Includes DAQ Signal Accessory and NI Instrument Simulator US 120 VAC
Without cables

NI Instrument Simulator

The Instrument Simulator is ideal for demonstrating PC-based GPIB and serial instrument control. Because it simulates the operation of both a digitizing oscilloscope and a digital multimeter, it is flexible enough for classroom use as well as to test and prototype GPIB and serial applications in industry.



The NI Instrument Simulator works with primary and secondary addressing, waveform generation [ASCII and binary (one and two byte with byte swapping)], 488.2 SRQ protocol, and ASCII data with headers.

Note: The NI Instrument Simulator requires a GPIB cable for connection to the GPIB interface board. For serial use, it also requires a 9-pin to 9-pin or a 9-pin to 25-pin null modem RS-232 cable to connect it to a PC COM port.

Specifications

DAQ Signal Accessory

Direct connection to:
- E Series devices
- 50 pin MIO boards

Function generator:
- Sine and square wave
- Frequency range 100 Hz to 1 MHz

Quadrature encoder
Solid-state relay (200 mA)
IC temperature sensor
Thermocouple jack
Microphone jack (3.5 mm)
Digital trigger
Labeled quick-connect terminals for signal connections
No external power supply required

NI Instrument Simulator

Direct connection to:
IEEE 488.1 and 488.2 compliant
9 pin RS-232 serial connector
Simulate operation of digitizing oscilloscope and DMM
More than 25 SCPI-like commands, such as:
- *IDN?
  Returns device ID
- FORM:DATA INT, 16
  Configures 2 byte integer waveform generation
- SOUR:FUNC SQU
  Configures square wave
- SENS:DATA?
  Returns waveform data

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