

Measure

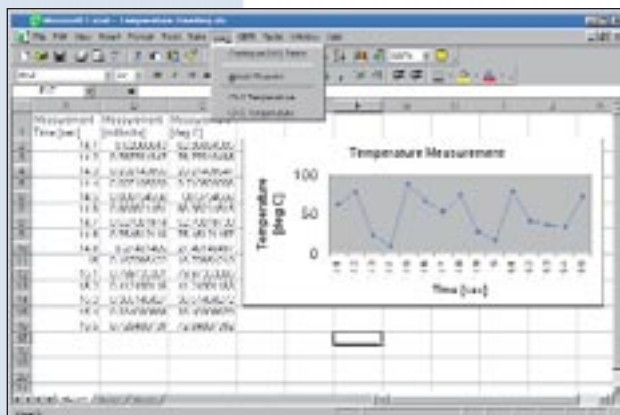
Measurement and Automation with Excel

Measure

- Direct data acquisition and instrument control from Microsoft Excel
- Analog I/O with DAQ and SCXI products
- Any serial (RS-232) or GPIB instrument control
- Easy-to-use dialogs for setting up acquisition and control operations

Applications

- Temperature measurement
- Laboratory experiments
- Design characterization
- Prototype testing/specification
- Education
- QA inspection
- Design validation
- Rack-and-stack instrumentation



Acquire Data into Microsoft Excel

The spreadsheet is one of the most commonly used tools among engineering, manufacturing, and management personnel. Using Measure, you can further increase productivity by integrating data collection directly into your Microsoft Excel worksheets.

Measure is a set of Excel add-ins for acquiring data from data acquisition (DAQ) devices and controlling GPIB and serial (RS-232) instruments. With dialog windows, you can configure different analog input and output tasks with your DAQ devices and configure tasks to control and retrieve data from any type of GPIB or serial instrument.

Productivity for Spreadsheet Users

Entering test results or process monitoring data into a spreadsheet is often a difficult and expensive task. Manual entry is time-consuming and error-prone, while custom programs that convert acquired data into spreadsheet formats require programming expertise and code maintenance.

Measure replaces these less efficient spreadsheet data entry methods with direct Excel add-ins for acquiring data from plug-in DAQ boards, IEEE 488.2-controlled instruments, and serial-controlled instruments. Measure places data you acquire directly into user-specified cell ranges and does not require programming or conversion algorithms. After Measure places the data into your worksheet, you can use the built-in Excel analysis functions to analyze experiment results and create reports.

You can automate your experiments with Excel macros using the built-in macro language Visual Basic for Applications (VBA). Using VBA in Microsoft Excel, you can create custom dialog boxes with pushbuttons, selection lists, check boxes, and ring controls that execute Measure I/O operations.

Instruments

- Oscilloscopes
- Multimeters
- Function generators
- Power supplies
- Electronic balances/scales
- Calipers
- Bar code readers
- Analyzers
- Any GPIB or RS-232 serial instrument

Compatible I/O Hardware GPIB Interfaces

- All National Instruments PC-based IEEE 488.2 controllers

Serial Interfaces

- Any standard PC RS-232 COM port
- AT-232 and AT-485 boards
- PCI-232 and PCI-485 boards

Plug-In DAQ Devices

- All E Series
- NI 670x and NI 671x

Portable DAQ

- DAQPad E Series

SCXI Products

- Analog input conditioning modules
- Analog output conditioning modules

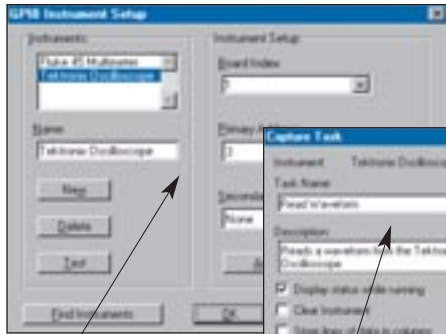
INFO CODES

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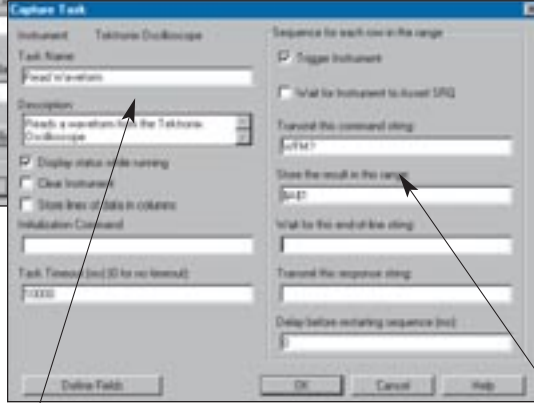
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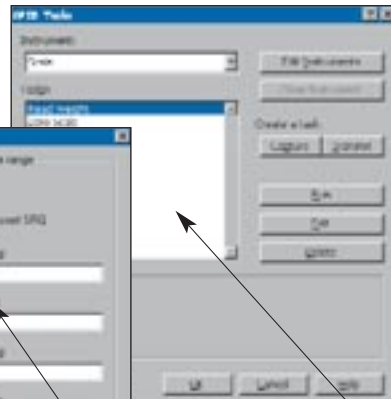
Measure Measurement and Automation with Excel



Specify the instruments connected to GPIB or serial ports.



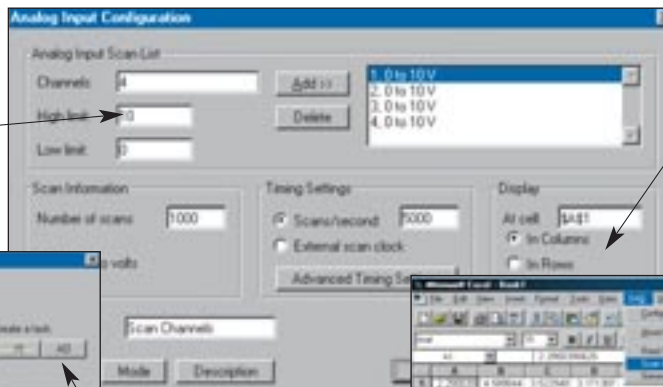
Define your own instrument control tasks.



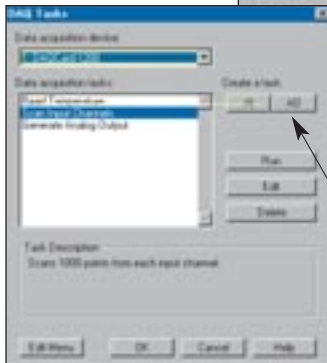
Interactively execute your instrumentation tasks to test their operation and view the acquired data.

Specify commands to send to instruments.

Define analog I/O operations with intuitive dialogs. Specify the input channels, number of points, and acquisition rate for your data acquisition tasks.



Specify an Excel range in which the data is placed.



Interactively execute your data acquisition tasks to test their operation and view the acquired data.



Customize the Excel environment with your I/O tasks.

System Requirements

Hardware

5 MB free disk space

Software

Windows 2000/NT/XP/Me/9x with Excel 7.0 or later (Office 97, Office 2000)

Ordering Information

Measure777203-01