

LOW COST DATA ACQUISITION



COMPLETE SELECTION



SIGNAL TYPE

ANALOG • DIGITAL • TEMPERATURE • MULTIFUNCTION...*and more*



INTERFACE

USB • WIRELESS • ETHERNET • PCI • PC/104 ... *and other popular bus types*



TEST & MEASUREMENT SOFTWARE

CONFIGURE IT • WIRE IT • WRITE IT... *the choice is yours*



THE LEADER IN
LOW-COST
PC-BASED DATA
ACQUISITION
HARDWARE AND
SOFTWARE

WIRELESS
ETHERNET

USB

PCI

DATA LOGGERS

PCMCIA

PC/104

ISA

EXTERNAL SIGNAL
CONDITIONING

TEST AND
MEASUREMENT
SOFTWARE



About Us

Based in Norton, Massachusetts, Measurement Computing is a global data acquisition provider, offering a complete selection of low-cost, PC-based hardware and software for every skill set.

30-Day Money-Back Guarantee

Products may be returned within 30 days of purchase for a full refund.

Live Support

Our technical sales support engineers are experts in both hardware and software. They'll help you select the best products for your application, and help you get your application up and running quickly.

INTRODUCING WEB-ENABLED TEMPERATURE MEASUREMENT

Instant Access WORLDWIDE



WEB-TEMP & WEB-TC

BUILT-IN
WEB
SERVER

*8-channel temperature
measurement modules
with built-in Web server*



MORE
INFO

www.mccdaq.com/webtemp

TEST & MEASUREMENT SOFTWARE

Call us at 508 946-5100

TO FIT EVERY SKILL SET, TIME CONSTRAINT, AND BUDGET

DO YOU WANT TO WRITE YOUR OWN CODE?

*Solutions for the
programmer and
non-programmer
alike, including
drivers for:*

- DASYLab**
- LabVIEW**
- Measurement Studio—MCC Edition**
- OEMs/Custom**

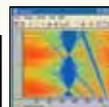
NO

"Out of the box" graphical environments



TracerDAQ PRO Strip Chart, Oscilloscope, Function Generator, and Rate Generator support a myriad of test and measurement applications

DASYLab Powerful, intuitive, graphical DAQ development application for non-programmers



YES

I/O text-based programming



Universal Library
Windows programming libraries and components

Measurement Studio—Measurement Computing Edition

Visual Studio 2005/2003 components and controls optimized for test, measurement, analysis, and presentation



DATA/TEMPERATURE LOGGERS

Buy online at www.mccdaq.com

CONFIGURE EASILY THROUGH USB PORT

USB-500 SERIES

Low-cost remote loggers

- ▶ Easy to use—no training required
- ▶ USB interface for set-up and data download
- ▶ User-programmable alarm thresholds
- ▶ Red, green, and amber LED status indicators
- ▶ All software included to install, configure, and download data
- ▶ Software includes powerful strip chart and export to Excel®
- ▶ Replaceable, long-life lithium battery
- ▶ 1-year warranty

USB-501-LT

Single-channel temperature logger

- ▶ -10 to +50 °C range
- ▶ 15 m, 30 m, 1 hr, 2 hr sampling intervals
- ▶ Stores 4,080 measurements



\$49

USB-501

Single-channel USB temperature logger

- ▶ Stores 16,382 temperature measurements
- ▶ -35 to +80 °C range (+/- 1 °C accuracy)
- ▶ Protected against moisture to IP67 standard when cap is installed



\$59

USB-502

Temperature and humidity logger

- ▶ -35 to +80 °C temperature range (+/- 1 °C accuracy)
- ▶ 0 to 100% relative humidity range
- ▶ Stores 16,382 temperature and 16,382 relative humidity measurements
- ▶ Protected against moisture to IP67 standard when cap is installed



\$79

USB-503

0–30 VDC voltage data logger

- ▶ 0 to 30 VDC measurement range (+/- 1% typ. accuracy)
- ▶ Logging rate intervals between 10 sec and 12 hr
- ▶ Stores up to 32,510 measurements
- ▶ Connection via two screw terminals
- ▶ Probes included



\$69

USB-504

4–20 mA current loop data logger

- ▶ 4–20 mA DC current loop measurement range (+/- 1% typ. accuracy)
- ▶ Logging rate intervals between 10 sec and 12 hr
- ▶ Stores 32,000 measurements
- ▶ Connection via two screw terminals
- ▶ Probes included



\$69

MORE INFO

www.mccdaq.com/loggers

COUNTER/TIMERS

USB AND PCI



“IT’S ALL IN THE BOX!”

Low-cost 9513-based USB counter/timers replace expensive instrumentation

The USB-4301 is a 5-channel, 16-bit counter/timer with 8 digital inputs, and 8 digital outputs. The USB-4303 version offers 10 channels. Both are software-programmable for event counting, pulse and frequency measurement and generation, alarm comparisons, and other input functions, eliminating the need for costly instrumentation.

Call us at **508 946-5100**

USB-4301

Low-cost, 9513-based, 5-channel counter/timer

- ▶ 5-channel, 16-bit counter/timer
- ▶ Event counting, PWM, frequency measurement/division, duty cycle generation, and more
- ▶ Input frequencies up to 20 MHz
- ▶ 8 digital inputs, 8 digital outputs

\$249

USB-4303

Low-cost, 9513-based, 10-channel counter/timer

\$349

ADD 5 MORE CHANNELS FOR \$100

ALSO AVAILABLE

37-pin “D” connector versions.....[USB-4302/4304](#)
PCI-bus version, 5 channels.....[PCI-CTR05](#)
PCI-bus version, 10 channels.....[PCI-CTR10](#)
PCI-bus version, 20 channels.....[PCI-CTR20HD](#)

MORE INFO

www.mccdaq.com/ctr

TEMPERATURE MEASUREMENT

Buy online at www.mccdaq.com

FOR ALL POPULAR BUS TYPES

USB, ETHERNET, AND WIRELESS TEMPERATURE MEASUREMENT

Versatility plus outstanding "price per channel"

- Easy to use—no training required
- Superior performance—accuracy exceeds sensor output
- 8 digital I/O bits
- Software includes powerful strip chart and export to Excel®

ETHERNET

WEB-TEMP & WEB-TC

8-channel, Web-enabled temperature measurement modules

- ▶ WEB-TEMP supports J, K, R, S, T, N, E, & B type thermocouples, 2-, 3-, or 4-wire RTDs and thermistors, and semiconductor temperature devices
- ▶ WEB-TC supports thermocouples only
- ▶ Built-in ambient CJC temperature sensor
- ▶ Independent temperature inputs
- ▶ Built-in Web server/Web page

\$699/\$599



BUILT-IN WEB SERVER

WIRELESS

WLS-TEMP & WLS-TC

Wireless temperature modules

- ▶ WLS-TEMP supports J, K, R, S, T, N, E, & B type thermocouples, 2-, 3-, or 4-wire RTDs and thermistors, and semiconductor temperature devices
- ▶ WLS-TC supports thermocouples only
- ▶ 802.15.4 wireless protocol
- ▶ Range: up to 150 feet indoors, 2400 feet outdoors

WLS-TEMP
\$799 COMPLETE SYSTEM PRICE
Includes **WLS-TEMP** and **WLS-IFC**

WLS-TC
\$599 COMPLETE SYSTEM PRICE
Includes **WLS-TC** and **WLS-IFC**

WLS-IFC
USB-to-wireless interface module

\$149
If purchased separately



USB

USB-TEMP & USB-TC

USB-based 8-channel temperature measurement modules

- ▶ USB-TEMP supports J, K, R, S, T, N, E, & B type thermocouples, 2-, 3-, or 4-wire RTDs and thermistors, and semiconductor temperature devices
- ▶ USB-TC supports thermocouples only
- ▶ Built-in ambient CJC temperature sensor
- ▶ Independent temperature inputs

\$499/\$299

USB-TEMP-AI & USB-TC-AI

USB-based temperature and voltage measurement modules with 8 analog input channels

- ▶ 4 differential temperature inputs
- ▶ USB-TEMP-AI supports J, K, R, S, T, N, E, & B type thermocouples, 2-, 3-, or 4-wire RTDs and thermistors, and semiconductor temperature devices
- ▶ USB-TC-AI supports thermocouples only
- ▶ 4 differential or single-ended voltage inputs
- ▶ Voltage ranges: ± 10 V, ± 5 V, ± 2.5 V, ± 1.25 V
- ▶ Automatic linearization of data
- ▶ Open thermocouple detection

\$649/\$549



ALSO AVAILABLE

- 8 channel thermocouple input temperature logger; writes to Compact Flash card... [USB-5201](#)
- 8 channel temperature logger; writes to Compact Flash card [USB-5203](#)

TEMPERATURE MEASUREMENT DEVICES ALSO AVAILABLE IN PCI, ISA, SERIAL I/O, AND REMOTE DATA LOGGER FORMATS
MORE INFO www.mccdaq.com/temp

HIGH PERFORMANCE MULTIFUNCTION

Call us at **508 946-5100**

DATA ACQUISITION

NEW MULTIFUNCTION USB DATA ACQUISITION PRODUCTS

Two new lines of high-performance, multifunction USB modules introduce new levels of power and flexibility to the test and measurement environment—bringing advanced synchronous and simultaneous capacity to data acquisition and control, with outstanding speed and accuracy.



USB-1616HS

1-MHz, 16-channel, 16-bit, USB-based multifunction module

- ▶ 16 single-ended or 8 differential analog inputs
- ▶ 7 programmable input ranges
- ▶ Analog inputs can measure voltage or thermocouple temperatures
- ▶ 24 channels high speed (>4 MHz) digital I/O
- ▶ 4 counter inputs capable of measuring frequency, period, pulse width, or quadrature encoders up to 20 MHz
- ▶ Synchronous I/O—analogue, digital, and counter/timer
- ▶ Optional expansion module quadruples analog inputs—for only **\$599**

\$1399



USB-1608HS

Simultaneous 8-channel, 16-bit, USB-based multifunction module

- ▶ Eight differential or single-ended analog inputs
- ▶ True simultaneous sampling (1 A/D converter per input)
- ▶ 250 kS/s per channel (2 MS/s aggregate)
- ▶ 32-bit event counter
- ▶ Analog/digital trigger inputs
- ▶ 16 digital I/O bits—LED status indicators

\$1199

ALSO AVAILABLE

[USB-1616HS-2](#) **\$1499** [USB-1616HS-4](#) **\$1599**
Adds two analog outputs Adds four analog outputs

ALSO AVAILABLE

[USB-1608HS-2AO](#) **\$1399**
Adds two analog outputs



STARTING AT \$549

MULTIFUNCTION AND HIGH PERFORMANCE FOR THE OEM, TOO!

Original Equipment Manufacturers—Use our USB- and PCI-2500 series boards to build synchronous and simultaneous analog, digital, and counter/timer I/O into your own products and systems, and save money.

Product	Analog Inputs	Input Ranges	Digital I/O	Analog Outputs	Counters (32-bit)	Timers (16-bit)	Price
PCI-2511	16SE	1	24	-	4	2	\$549
PCI-2513	16SE/8DI	7	24	-	4	2	\$649
PCI-2515	16SE/8DI	7	24	2	4	2	\$749
PCI-2517	16SE/8DI	7	24	4	4	2	\$849
USB-2523	16SE/8DI	7	24	-	4	2	\$799
USB-2527	16SE/8DI	7	24	4	4	2	\$999
USB-2533	64SE/32DI	7	24	-	4	2	\$999
USB-2537	64SE/32DI	7	24	4	4	2	\$1199

MORE INFO

www.mccdaq.com/2500

TEST & MEASUREMENT SOFTWARE

Buy online at www.mccdaq.com

FOR EVERY SKILL SET...now Windows Vista compatible

FLEXIBILITY FOR THE FUTURE

The applications you develop today will move seamlessly to the next bus type of tomorrow

DASYLab[®]

Data Acquisition System Laboratory

Intuitive graphical development
DAQ environment

**OVER 90 DATA ACQUISITION,
CONTROL, PROCESSING,
AND DISPLAY FUNCTIONS**

DASYLab is a graphical application that allows you to quickly develop custom DAQ applications without any programming. Using the intuitive worksheet, modules, and wire functions, you're only a few mouse clicks away from a complete application. DASYLab offers extensive function libraries in the following categories/modules:

Inputs/Outputs	Signal Processing	Trigger
Display	Files	Data Reduction
Mathematics	Statistics	Network



DASYLab....Starting at **\$499** **MORE INFO** www.mccdaq.com/dasylab



TRACER DAQ[®] PRO

Data
acquisition
logger and
instrument
software
suite



INCLUDES 4 VIRTUAL INSTRUMENTS
STRIP CHART • FUNCTION GENERATOR •
OSCILLOSCOPE • RATE GENERATOR

With TracerDAQ[®] PRO, a powerful, out-of-the-box virtual instrument suite, you can acquire, analyze and display data, and generate signals, within seconds of installing your Measurement Computing hardware. No programming is required.

32-CHANNEL STRIP CHART



Sampling speeds equal to board's sampling rate; 8 graphs; alarms, triggering, more

16-CHANNEL FUNCTION GENERATOR



Multiple waveform types; ability to change duty cycle, phase, rate multiplier, gate ratio, more

4-CHANNEL OSCILLOSCOPE



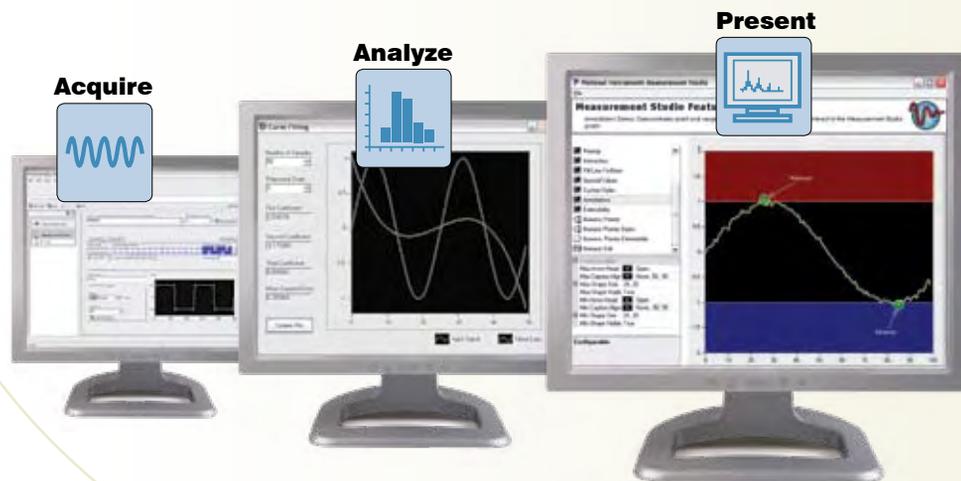
Sampling speeds equal to board's sampling rate, math functions, measurement display windows

20-CHANNEL RATE GENERATOR



Vary frequency, duty cycle, and initial state of counter/timer outputs

TracerDAQ[®] PRO..... **\$199** **MORE INFO** www.mccdaq.com/tdpro



A powerful integration of MCC DAQ hardware with analysis and presentation tools for the scientist and engineer

- Analog I/O
 - Digital I/O
 - Temperature
 - Counter/Timer
 - GPIB
- Digital signal processing
 - Windowing
 - Filtering
 - Array and numeric calculations
 - Signal generation
 - Statistics
 - Curve fitting
 - Spectral analysis
- Graphs
 - Dials
 - Gauges
 - Buttons
 - Tanks
 - Thermometers
 - Slides
 - Knobs

Measurement Studio— MCC Edition

Integrated suite of classes and controls optimized for test, measurement, and automation applications in Visual Studio 2005 and Visual Studio .NET 2003

Measurement Studio dramatically reduces application development time with .NET controls, object-oriented measurement hardware interfaces, advanced analysis libraries, scientific user interface controls, measurement data networking, wizards, interactive code designers, and highly extensible classes.

With Measurement Studio, you use your Visual Studio programming knowledge to get measurements started quickly and create a complete measurement solution—all the way from acquiring, to analyzing, to presenting.

\$999

MORE INFO www.mccdaq.com/mstudio