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New Distribution

Simpletech/Duo:- Memory Cards+ Memory Card Readers (All Types), PC Memory (All Models), Flash Disk and the sexy Bonzai USB Flash Drives, great for Industrial Systems or remote systems or just moving data or programs
www.duo.co.nz & www.simpletech.com

Precision Transducers:- Force and Load cells, every conceivable type & range, ISO9000 accreditation.
www.precisiontransducers.com

K&H:- LabVIEW I/O Trainer, Bread Boarding, Electronic, TCP & Micro Teaching Systems, handtools for assembly, troubleshooting test Instruments
www.kandh.com.tw

Versatile Technology:- USB connected Instruments for High Accuracy Quadrature Encoders, Mitutoyo Gauges
www.versatiletechnology.com.au

SuperLogic DAQ:- DAQ products, RS-232, USB and 485 boxes, PCI and PCMCIA, LabVIEW enabled drivers also.
www.superlogics.com

Vartech:- High quality ruggedized 6" to 21" LCD Flat Panel Display Systems and 10" to 29" Industrial CRT Monitors.
www.vartechsystems.com/ (Next Article)

Nokia M2M:- M2M=Machine to Machine transparent GSM/Internet inter-connections. (Next Month Article)

Topsccc:- ADAM Digital output modules with Solid State Relays. Also a 70 samples/sec 8 channel DAQ unit that accepts millivolts, volts & 0-20mA.
www.topsccc.com

Do you need some programming help?
MasTec has just hired another programmer for our growing project and integration services.

Industrial LCD and CRTs Vartech USA

Heavy Duty Industrial LCD Panels :-
NEMA 4 & 4 X
6.4" | 8.4" | 10.4" | 12.1" | 15.0" | 18.1"
| 20.1" | 21.3" | 23.1"

Medium Industrial Flat Panel:-
NEMA 4
12.1" | 15.0" | 18.1"

LCD Dual & Quad Displays:- 8.4" | 12.1" | 18.1"



VarTech offers several choices of industrial flat panel monitors and CRTs to meet your specific display needs.

These quality industrial flat panel monitors are active matrix TFT available in configurations including: chassis mount, panel mount, rackmount, wallmount, arm mount, and ruggedized tabletop LCD displays. (+ Stainless)

Replace that old, low-performance CRT unit with a new, affordable, quality LCD display replacement at cost effective prices!

High quality rugged CRT displays designed for Control Rooms & Factory Floor. 10", 12", 14", 15", 17" 19", 20", 21", 28", 29" Console, Rack & Panel Mount or Rugged Tabletop.



Also a range of CRT & Flatpanel LCD monitors configured to directly replace legacy models originally manufactured by companies such as Allen Bradley, Aydin, Barco, Conrac, Electrohome, Intecolor, KME, Microvitec and many, many more.

All Vartech displays are available with optional Integrated Resistive or Capacitive Touchscreens

LabVIEW Training Courses Christchurch April 30, May 1 and 2

We are now booking for our third LabVIEW courses for the 2003 year. Book now please.

Course I and II were well received and were attended by 8 students, doing Basic I, II, DSP, Comms and DAQ.

Course III will also cover the same subjects.

Go to www.mastec.co.nz for pdf course details.

Course III will be at CPIT in CHCH.

Course 4 will be in Auckland in early June, email now to book your place.

Do you have a project that needs doing?
MasTec has skilled engineers in Fabrication, Electrical, Electronics, Programming & Integration.

W W W . m a s t e c . c o . n z
V i s i t o u r W e b S i t e a t



Looking for Lower Cost USB DAQ?

LabJack

USB-based multifunction data acquisition and control device features a breakthrough price/performance ratio.



Only \$499+GST

Features

- 8 Single-Ended, 4 Differential 12-Bit Analog Inputs
- ± 10 Volt Analog Input Range
- PGA with Gains of 1, 2, 4, 5, 8, 10, 16, or 20 V/V
- Up to 8 kSamples/Sec (Burst) or 1.2 kSamples/Second (Stream)
- Supports Software or Hardware Timed DAQ
- Supports Triggered Acquisition
- 2 Analog Outputs
- 20 Digital I/O (Up to 50 Hz per I/O)
- 32-Bit Counter
- Watchdog Timer Function
- Easy to Use Plug-and-Play USB Device
- Connect Up to 80 LabJacks to One USB Port
- Complete Software Control
- No Jumpers or Switches
- No Power Supply Needed
- [Application and Driver Software](#)
- **Includes LabVIEW VIs**
- Works with Windows 98SE, ME, 2000, or XP
- Includes Cable and Screwdriver
- Approximately 4" x 6" x 1"

The PGA (Programmable Gain Amplifier) provides variable gain which is controlled in software. It is used to amplify low voltages on the analog inputs.

In the case of the LabJack, there is a PGA available for all differential channels which provides a variable gain between 1 and 20. When set to a gain of 1, the differential input voltage range is +20 volts to -20 volts and the voltage resolution is 0.00977 volts per bit (9.77 mV/bit). When set to a gain of 20, the differential input voltage range is +1 volt to -1 volt and the voltage resolution is 0.000488 volts per bit (0.488 mV/bit).

Connect the low cost 2 channel MA-100 amplifier to the LabJack and add Thermocouples, strain gauges etc.

Duo/Simpletech USB Port Flash Hard Drives.
You can boot from these Flash Drives.
New PCs have a BIOS setting allowing this!

Looking for Fully Isolated Analog and Digital DAQ?

IsoLynx

The isoLynx is a fully isolated data acquisition system providing accuracy and isolation for a wide range of rugged industrial applications.



Controller is less than <1,000+GST

All I/O is channel-to-channel isolated of:-
Analog 1500VRMS and Digital 4000V.

One isoLynx controller can operate up to 60 channels of differential analog I/O and 128 channels of digital I/O. The design combines a 12-channel I/O Controller module and optional 8- or 16- channel expansion backplanes, which can be either panel or DIN rail mounted.

The isoLynx controller connects with RS-232 or 485, has an A/D and D/A subsystem. The A/D system is built around a 16-bit, 100kHz successive approximation converter which allows conversion of a maximum 60-channels in 1.7msec. The D/A converter is also a 16-bit device operating at 100kHz rate.

The isoLynx has hundreds of 5B isolated conditioner modules that connect to all sorts of analog signals, millivolt, volt, milliamp, amp, thermocouple, RTD, potentiometer, slidewire, strain gage, AC to true RMS, frequency, two-wire transmitter, and transducers requiring DC excitation. Analog output modules provide a wide selection of current or voltage output ranges. Industry standard digital I/O modules are used for digital AC/DC input and SSR output requirements. The user can mix and match any I/O module type on a per-channel basis thus reducing wasted I/O channels and saving costs.

The isoLynx operation and storage temperature is -40°C to +85°C, and relative humidity 0 to 95%. Power requirement is +5VDC, 2.5W base system with no modules installed.

Software includes VB, VC++ and an API for LabVIEW and other programs.

Are you looking for Higher Capacity UPS Batteries?
MasTec is supplying standard 12 volt 7.2Amp/Hr casings with a 9Amp/Hr capacity inside.

V i s i t o u r W e b S i t e a t www.mastec.co.nz