

PC104 – DATA ACQUISITION UNIT



The PC104 unit was designed and used for general purpose measurement and test. A typical application monitors sensors to facilitate control of motors and relays in a semi-automatic test environment. The Ethernet connection provides a mechanism for uploading test results to a centralized database.

SYSTEM HARDWARE

- COTS Enclosure and Computer Data Acquisition Components
- Standard Interface Configuration
 - Sensor suite & Computer peripherals
- Customized Sensor Cable Harness

SYSTEM SOFTWARE

- Access Control
 - Operator & Supervisor/Engineer
- Operator/Test Inputs
 - Configuration Tables
- Test Sequence/Decision
- Data Acquisition
- Data Display
- Data Storage/Transfer

SYSTEM SPECIFICATIONS

- 7" W x 6"H x 4"D Enclosure-expandable
- Rack mountable
- PC104 Form Factor for all unit boards
- Operational Temperature Range of -40 to +140°F
- Expandable COTS circular connector
- 16 Analog sensor inputs 0-10V
- 2 Analog Outputs
- 8 Digital Inputs
- 8 Digital Outputs
- Computer I/O
 - 1 VGA
 - 2 Host USBs
 - 1 Client USB
 - Ethernet
 - 2 Serials

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