**PACIFIC INSTRUMENTS**
A VPG Brand

The 6000E enclosure has 16 slots for Series 6000 input and output modules with a gigabit Ethernet interface for programming, control and data output. An internal Control & Data Processor (Model 6096) provides an Ethernet interface to the remote Operators Workstation. The 6000E has 5 USB 2.0 connectors on the rear panel. This allows multiple Model 6000U (up to 63) enclosures to be used for system expansion.. A sample clock bus is provided for multi rack installations.

The enclosures are 8U 19-inch rack-mount. The enclosures have integral fans providing air circulation and an internal cable tray that routes the input and output cables from the front of the installed modules to exit the rear of the enclosure.

Data Recording Redundancy is optionally available. A 2.5" HD (Model 6095) mounts on the USB controller board in each 6000U enclosure and provides a redundant recording point for the DAS. In the unlikely event the Operators Workstation or DAS Software fails, data will continue to record in each enclosure and can be recovered from the system post test.

The Operators Workstation (PCCOWU-DHD) is the primary control and data recording point for the Series 6000 DAS. The PCCOWU-DHD is typically installed in the control room and runs PI660 Data Acquisition Software for system setup, calibration, display, recording, distribution and export.
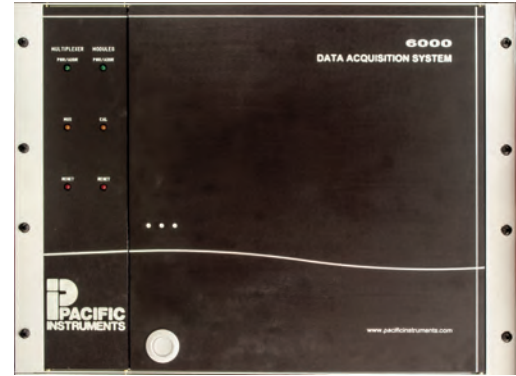
FEATURES

- Enclosure for 16 I/O modules
- Ethernet Interface provides up to 4.8 MS/s aggregate data rate
- Calibration voltage distribution
- Alarm busses for control of external equipment
- Optional on-board data storage
- Built-in fans and cable tray

SPECIFICATIONS

DATA FORMAT

Data Word ....16 or 32-bits, 2's complement binary.

Scan Table ....Maximum format length is 65,536 samples.

Sample Rates ....Multiple sample rates consisting of the highest sample rate divided by binary numbers. Highest sample rate is programmable with 1 uS resolution.

DATA INTERFACE

Output Rate ....Processor dependent, up to 4.8 million 16-bit samples/second (4.8 MS/s).

Latency.................Processor and scan table dependent, typically less than 5 milliseconds.

Clock Stability........100 ppm over temperature range.

OPERATION

Protocol ....Gigabit Ethernet.

Software ....Windows 10 64-bit driver provides a high-level operating command set. Fully compatible with all implementations of PI660 operating software.

Control Inputs........TTL inputs for Start, Stop and Trigger assert flags in the header of output data that initiate software control operations.

Alarms ....Warning and alarm buses may be independent or shared between enclosures and may initiate an output from a digital I/O type module.

CONNECTIONS

Calibration ....15-Pin Type D mounted on rear panel. Mating connector supplied.

Control ....9-Pin Type D mounted on rear panel. Mating connector supplied.

Synchronization......Sampling clock synchronization for multiple rack systems. RJ45 connector on controller board. Category 5, 2-meter cable supplied.

USB ....5 USB 2.0 ports on rear panel for system expansion.

Ethernet ....RJ45 connector on rear panel.

MECHANICAL

Power ....115 or 230 VAC, ±10%, 47 to 63 Hz, 400 Watts.

Temperature ....0°C to +50°C operating.

Humidity ....95% without condensation.

Shock/Vibration ......Normal shipping and handling of laboratory instruments.

Size ....19 inches wide, 14 inches high, 23 inches deep (including connectors).

Weight ....Approximately 85 pounds with all channel modules.

OPERATORS WORKSTATION (PCCOWU-DHD) (OPTIONAL)

Operating System ..Windows 10, 64-Bit.

Processor ....Intel Core i7 or better. 32GB RAM.

Media ....512GB SSD or better and CD/DVD. Dual SSD Option. Larger disk drives available.

Ethernet ....Gigabit Ethernet.

Display ....Dual 24" Widescreen for PCCOWU-DHD. No Display for CDP. Larger, distributed or multi-monitor configurations available.

Power ....115 or 230 VAC, 47 to 63 Hz..

Temperature ....0°C to +50°C operating.

Size ....2U high, 19" Rack Mount. Other configurations available.

ORDERING INFORMATION

6000E ....Enclosure, 16-slot, Ethernet Interface.

6095 ....Redundant Hard Drive.

CDP-1A ....Control & Data Processor.

CDP-1-DHD ....Control and Data Processor, Dual Hard Drives.

PCCOWU-DHD ......Operators Workstation, Dual Hard Drive.