

The 6010U enclosure has 4 slots for Series 6000 input and output modules with a Universal Serial Bus (USB 2.0) computer interface for programming, control and data output. For larger systems, up to 32 enclosures may be combined using USB 2.0 hubs or a computer with multiple USB 2.0 ports. The enclosures are 3U 19-inch, rack-mount or desktop. The enclosures have integrated 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.

A sample clock bus is provided for multi rack installations. Programming and data transfer is USB 2.0, which provides high data transfer rates with low, predictable latency. It interfaces to the USB 2.0 port provided on most PC computers, including laptops. Maximum length of the interface cable is 3 meters but it may be extended further using Ethernet with the Control & Data Processor (CDP) option.

Data Redundancy is optionally available. A 2.5" HD (Model 6095) mounts on the USB controller board in each 6010U enclosure and provides a redundant recording point for the DAS. In the unlikely event the Operator's Workstation or DAS Software fails, data will continue to record in each enclosure and can be recovered from the system post test.

The Control & Data Processor (CDP) interfaces multiple 6000 enclosures to gigabit Ethernet providing remote and/or distributed operation. The CDP is typically installed with the Series 6000 DAS and provides an Ethernet interface to the Operator's Workstation. The CDP includes a high-speed processor and software that performs low-level operations, freeing resources on the Operators Workstation computer for data display, storage, distribution and reduction.

SPECIFICATIONS

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DATA FORMAT	
Data Word	16 or 32-bits, 2's complement binary.
Scan Table	Maximum format length is 65,536 samples.
	Multiple sample rates consisting of the highest sample rate divided by binary numbers. Highest sample rate is programmable with 1 uS resolution.
DATA INTERFACE	
	Processor dependent, typically over 5 million 16-bit samples/second (5 MS/s).
	Processor and scan table dependent, typically less than 5 milliseconds.
Clock Stability	100 ppm over temperature range.
OPERATION	
Protocol	Control and data interface is USB 2.0.
	Window's driver (XP and 7, Both 32 and 64-bit) provides high-level operating command set. Fully compatible with all implementations of PI660 operating software.
	TTL inputs for Start, Stop and Trigger assert flags in the header of output data that initiate software control operations.
	Warning and alarm buses may be independent or shared between enclosures and may initiate an output from a digital I/O type module.
CONNECTIONS	
	15-Pin Type D mounted on rear panel. Mating connector supplied.
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,	Category 5, enclosure to enclosure. Two-meter cable supplied.
USB	Two-meter cable supplied.



FEATURES

- Enclosure for 4 I/O modules
- USB 2.0 Interface provides 5+ MS/s aggregate data rate
- Calibration voltage distribution
- Alarm busses for control of external equipment
- Optional remote operation using gigabit Ethernet
- Optional on-board data storage
- Built-in fans and cable tray

The Operator's Workstation (PCCOWU) is the primary control and data recording point for the Series 6000 DAS. The PCCOWU is typically installed in the control room and runs PI660 Data Acquistion Software for system setup, calibration, dsiplay, recording, distribution and export. In installations where the DAS is not remote from the Operator's Workstation, the PCCOWU will connect directly to Series 6000 Enclosures and does not require the CDP.

MECHANICAL	
Power	115 or 230 VAC, ±10%, 47 to 63 Hz,
	400 Watts.
Temperature	0°C to +50°C operating.
	95% without condensation.
Shock/Vibration	Normal shipping and handling of laboratory instruments.
Size	19 inches wide, 5 inches high, 18 inches deep (including connectors).
Weight	Approximately 25 pounds with all channel modules.
CONTROL DATA	PROCESSOR & OPERATOR WORKSTATION
Input	USB 2.0 ports for up to eight 6000U enclosures. Additional 6000U enclosures accommodated by adding USB expansion cards.
Operating System	Windows 7, 64-Bit (other Windows configurations available).
Processor	Intel Core i5 or better. 4GB RAM.
Media	160GB SSD or better and CD/DVD. Dual SSD Option. Larger disk drives available.
Ethernet	Gigabit Ethernet.
Display	24" Widescreen for PCCOWU. No Display for CDP. Larger, distributed or multi-monitor configurations available.
Power	115 or 230 VAC, 47 to 63 Hz
Temperature0°C to +50°C operating.	
Size	2U high, 19" Rack Mount. Other configruations available.
ORDERING INFORMATION	
6010U	Enclosure, 4-slot, USB Interface.
6095	Redundant Hard Drive.
CDP-1	Control & Data Processor.
CDP-1-DHD	Control and Data Processor, Dual Hard Drives.
PCCOWU	Operators Workstation.
PCCOWU-DHD	Operators Workstation, Dual Hard Drive.

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For further information or pricing.

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