MODEL 6005E

Enclosure, 8-slot, 12VDC, Ethernet Data & Control Interface

The 6005E enclosure has 8 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. 6005U is DC operated for mobile applications.

All connections are made on the front, allowing the 6005E to be located in the tightest of spaces. It has integral fans that supply cooling air to the modules and power supply. Power is 10 to 20VDC with 21 to 32 VDC also available. An included power adapter is provided for operation from 120/240 VAC.

Data Redundancy is optionally available. A 2.5" HD (Model 6095) mounts on the USB controller board in each 6005 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-LT) is the primary control and data recording point for the Series 6000 DAS. The PCCOWU-LT is typically a laptop, connected to the 6005E's Ethernet port and runs PI660 Data Acquistion Software for system setup, calibration, dsiplay, recording, distribution and export.

FEATURES

- **DC Enclosure for 8 I/O Modules**
- **Ethernet Interface provides 4.8 MS/s aggregate data rate**
- **Calibration voltage input**
- **Alarm busses for control of external equipment**
- **Optional on-board data storage**
- **Built-in fans and front mounted connections**

SPECIFICATIONS

DATA FORMAT

Data Word	16/24/32-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 1µS resolution.

DATA INTERFACE

Output Rate	Processor dependent, typically over 5 million 16-bit samples/second.
Latency	Processor and scan table dependent, typically less than 5 milliseconds..
Clock Stability	100 ppm over temperature range.

OPERATION

Protocol	Control and data interface is 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	USB 2.0 for system expansion.
Ethernet	RJ45 connector.

MECHANICAL

Power Input	10 to 20 VDC. (21 to 32 VDC available on special order)
Temperature	0°C to +50°C operating.
Humidity	95% without condensation.
Size	13.4 inches wide, 10.5 inches high, 16.7 inches deep exclusive of handles.
Weight	Approximately 30 pounds with all channel modules.

ACCESSORIES

6085	Connector Interface Panel for 6005 Enclosures.

OPERATORS WORKSTATION (PCCOWU-LT) (OPTIONAL)

Operating System	Windows 10, 64-Bit.
Processor	Intel Core i5 or better. 2GB RAM.
Media	160GB SSD or better and CD/DVD. Dual SSD Option. Larger disk drives available.
Ethernet	Gigabit Ethernet.
Display	15".
Power	115 or 230 VAC, 47 to 63 Hz..
Temperature	0°C to +50°C operating.
Size	Laptop (other configruations available).

ORDERING INFORMATION

6005E	Enclosure, 8-slot, 12VDC Ethernet Interface.
6095	Redundant Hard Drive.
PCCOWU-LT	Operators Workstation. Laptop.

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