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HCU1500 and HCU400 Modular Controllers for PathTrak Performance Monitoring System

- *Scaleable and flexible architecture*
- *Self-contained data analysis and storage*

The HCU Modular Controller is the essential part of the PathTrak Performance Monitoring System. It provides the communications gateway to and from the Master System Controller (Server PC) and remote monitoring equipment. In addition, the HCU provides housing for PathTrak monitoring modules, memory for data storage, and an on-board processor for intelligent analysis and control of monitored data.

The HCU communicates to the Master System Controller to notify users of system alarms and status. Users can also initiate contact to the HCU through the Master System Controller, or locally, to interactively control and view monitoring system data. Largely due to the design of the HCU, the PathTrak Performance Monitoring System is an extremely scaleable system, maintaining high performance in large deployment, and cost effectiveness in low deployments.

Modular Platform Provides Scalable Housing

The housing of the HCU is an industry standard VME chassis. Each HCU has a specific number of slots available for PathTrak monitoring system modules and cards (i.e. the RPM1000 Monitoring Module). Users are able to construct a system that contains the number and kind of modules to meet their specific needs



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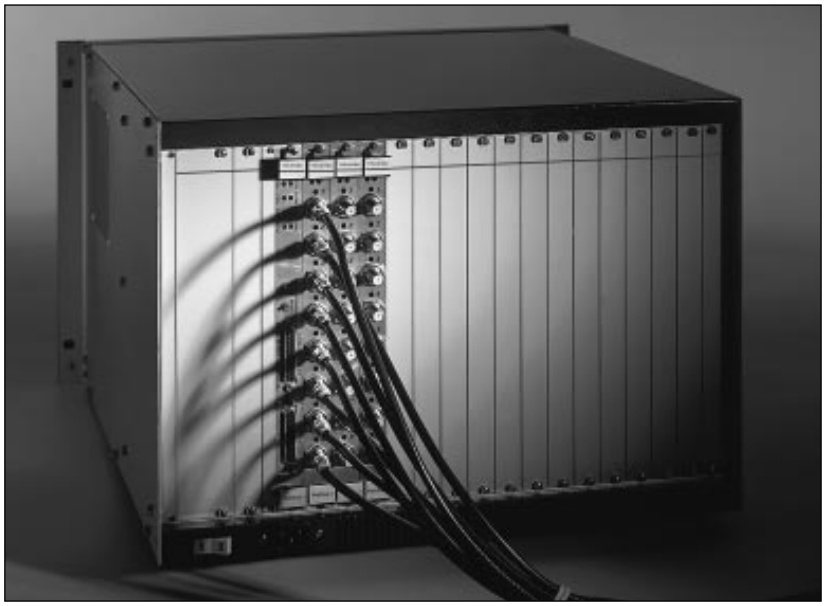


Figure 1: Rear view of HCU1500 with 3 RPM1000 modules installed.

Flexible Communications

Each HCU contains multiple types of communication ports — RS232 serial ports, parallel port, 10/100 baseT Ethernet port and an optional telephone modem. Through these ports, the HCU will support multiple connections, enabling communication to and from multiple devices and providing local and remote troubleshooting simultaneously. The 10/100 baseT Ethernet connection is recommended for remote access to support the highest speed data transfer.

today, which reduces initial investment costs. Then, as user network architectures grow and needs change, new modules and capability can easily be added.

Intelligence and Data Storage in HCU Improve System Performance

Each HCU contains a 2GB hard drive module for storage of monitored performance, and a single board computer module card for intelligent analysis in the chassis itself. Once monitoring plans are established by the user and downloaded to the HCU, the HCU is a completely self-managed unit. With so much onboard processing power so close to the monitoring modules, data storage and analysis is much faster, and more extensive intelligence and higher overall system performance is possible. Also, since all data storage and analysis is performed in the HCU, communication to the Master System Controller (Server PC) is only required to communicate system status and alarms. Thus, multiple HCUs deployed in multiple remote sites can all perform at equally high performance, and will not be restricted by communication links to a central PC controller. This also minimizes network traffic over user's LAN or data communications networks.



Close-up of modules on back of the HCU1500.

Specifications

HCU400:

Physical:

Width: 19" rack mountable

Height: 4 rack units (6.968 in., 176.9mm)

Weight: 25 lbs. maximum

Module capacity:

4 available slots for monitoring module cards

Module card mounting orientation:

Horizontal

Data storage capacity: 2GB

Processor:

Motorola Power PC single board computer CE marked

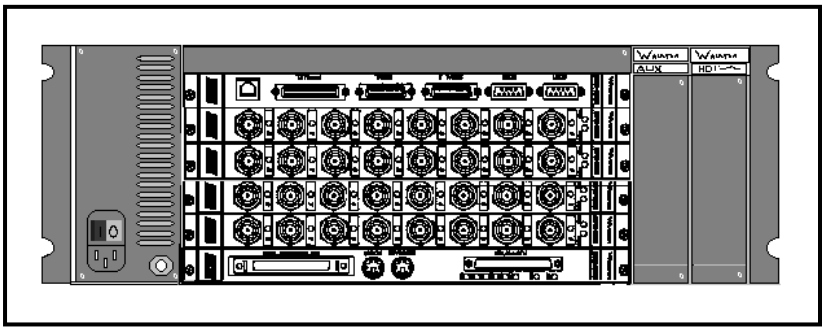
Communication ports:

four serial RS232, one 10/100 baseT Ethernet, one Parallel port

Power supply:

AC auto-ranging 90-132VAC / 180-264VAC @ 47-63Hz

Operational Temperature range: 0-50°C



Schematic of rear view of HCU400 with four RPM1000 modules installed.

HCU1500:

Physical:

Width: 19" rack mountable

Height: 7 rack units (12.219 in., 310.4mm)

Weight: 35 lbs. maximum

Module capacity:

15 available slots for monitoring module cards

Module card mounting orientation:

Vertical

Data storage capacity: 2GB

Processor:

Motorola Power PC single board computer CE marked

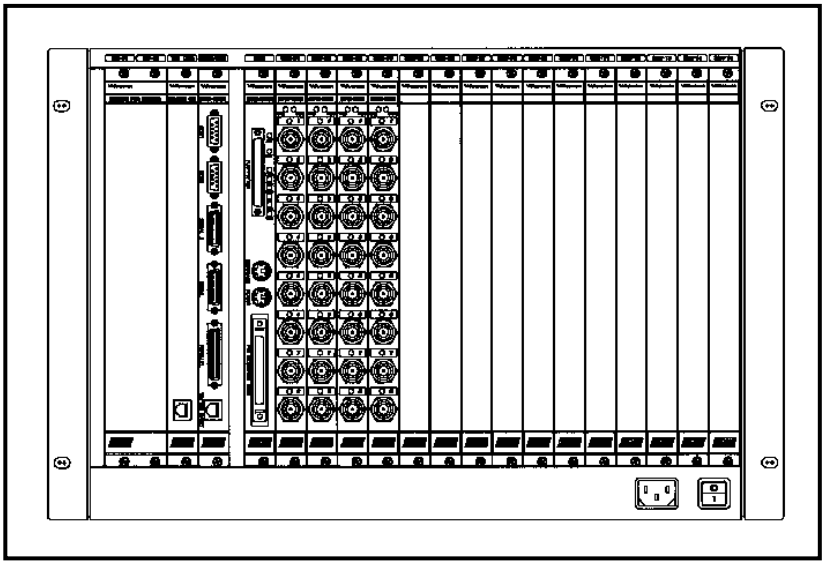
Communication ports:

four serial RS232, one 10/100 baseT Ethernet, one Parallel port

Power supply:

AC auto-ranging 90-132VAC / 180-264VAC @ 47-63Hz

Operational Temperature range: 0-50°C



Schematic of the rear view of the HCU1500 with four RPM1000 modules installed.

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