PMC

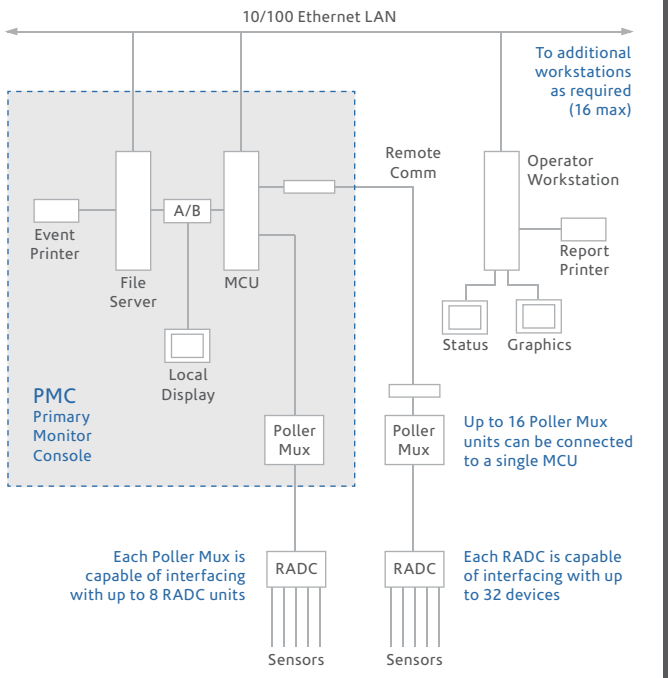
DATA STORAGE AND REPORTING

Providing a scalable front end for StarWatch™ security systems, the DAQ PMC (Primary Monitor Console) acts as an intelligent data center, processing and storing information collected from remote sensors and devices and sending detailed status reports to multiple operator workstations. Continuous updates, containing current and historical data, are communicated across system architecture using Microsoft® networking, an integral part of the Windows-based operating platform. The LAN facilitates reliable, high-speed communication between processors. Supporting large-scale sensor networks, the PMC provides the capacity to integrate up to 4,095 RADC network controllers into a comprehensive security solution.

KEY FEATURES

- Powerful data processing and communications modules
- Instantaneous updates reflecting real-time status of connected sensors and data points
- Rack-optimized hardware components
- LAN architecture facilitating multi-tasking, multi-user security environment

The PMC rack-based enclosure houses a file server, an MCU (Master Communications Unit), intelligent Poller Mux cards, and networking hardware. A connected monitor/mouse/keyboard combination can be utilized as a local workstation, offering direct access to system settings and diagnostics.



Promoting rapid flow of information, the PMC provides a centralized data center for integrated StarWatch security systems

The enclosure also includes system-specific peripheral communications equipment, such as modems, fiber optics, and Data Encryption Standard (DES) modules. All CPUs incorporated in the PMC offer a powerful balance of performance, size, and expandability and are ideal for rack-dense environments that demand a high level of uptime.

STARWATCH™

TECHNICAL SPECIFICATIONS

PROCESSING

Processor	• 8051 microcontroller operating at 16MHz with integral ArcNET controller
Memory	• EPROM 64K • SRAM 64K, expandable to 128K

COMMUNICATIONS

Interface	• On-board ArcNET controller operating at speeds up to 2.5 Mbit per second over isolated RS485 or fiber optic
1 Serial Port	• RS232, RS485

MEASUREMENTS / COMMANDS

Inputs	• All inputs are tamper protected • Support for door indication, cabinet tamper, request to exit • Two spare
Outputs	• All relay contacts are Form C selectable as 1 Form A or 1 Form B, rated for 10A at 125VAC • Support for door strike, bell output • One spare
Design	• All inputs and outputs meet requirements of UL 1076 surge protection

POWER

Input	• 120/208/250VAC, 60Hz • 220VAC, 50Hz
Output	• Temperature compensated float charge capable of supplying 3A of charge to battery • 5 and 12V available for card readers and keypads
Battery	• 8 hour battery backup • Charger disconnects for 10.5V low voltage disconnect ±10% and 15.7V high voltage disconnect ±10%
Consumption	• 3W typical

ENVIRONMENTAL

Operating	• -20 to +70°C
Storage	• -20 to +70°C
Humidity	• 5 to 95% non-condensing
Vibration	• Meets UL 1076 jarring tests
Radiation	• Certified to FCC part 15, class B
Packaging	• Tamper protected NEMA 1 enclosure for interior applications

CONTACT

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