

# Series 8003-1000

### Distributed Control and Monitoring System

The Omni Chief is a flexible system with many configurations. The basic unit can function as a stand alone alarm annunciator. It is expandable and designed for seamless integration with the PMC IMACS graphic user interface.

This overall system provides reliable hardware and software to suit project specific requirements such as graphics, automation, safety systems, trending and health monitoring.

## FEATURES

- Any combination of analog and digital inputs
- Industry standard inputs, see specifications
- Disable / enable points based on machinery status
- Virtual points based on calculations and logic functions
- 96 point indication panel with engraved ID tags
- Graphic LCD for additional information and setup
- High speed network connection for additional computer graphics, control and monitoring
- 28 key membrane keypad
- Menu driven programming
- Setup is password protected and stored in non-volitile memory
- DC to DC converters for enhanced noise immunity
- Relay outputs for communication, CPU, power and ground faults
- Self diagnostic
- Removable connectors throughout for easy maintenance
- Unit is field serviceable by replacing modules



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#### Specifications for Series 8003-1000 Distributed Control and Monitoring System



#### Supply:

- Nominal 24 VDC, range 17 to 36 VDC
- 5 Amps typical, may vary depending on system configuration
- Reverse and overvoltage protection to 120 VAC
- Input power fuse, 15 amps, type KTK-15

#### **Environmental:**

- Operating temperature 0 to +50°C
- Storage temperature -20 to +60°C
- CE compliant for EMC (IEC/EN60945) **Physical:**
- IP65 splash proof front
- Dimensions 30" H × 30" W × 13.5" D (762 mm H × 762 mm W × 343 mm D)
- Enclosure size and weight may vary depending on analog / digital input combination

## **Options:**

- Integration to PMC IMACS graphic user interface
- Local connection for lap top computer
- Additional displays can be added for alternate display locations
- Various sizes of remote collectors (without display) can be implemented to optimize wiring
- Output modules
- Optical isolation protection for inputs
- Transducers
- Bells, horns and beacons
- Factory preprogramming
- Dual communication
- Project specific connection diagrams drawn with AutoCAD
- Installation, calibration and testing of complete system by PMC personnel

#### Input Module Types (max 130 per Omni Chief):

- Current (4-20 mA, 0-5 A)
- VDC digital (2.5-16, 2.5-28, 4-16, 10-32, 35-60, 90-140, 180-280)
- VAC digital (12-32, 35-60, 90-140, 180-280)
- VDC analog (0 to 0.1, 0 to 1, 0 to 5, 0 to 10, -5 to 5, -10 to 10)
- VAC/DC analog (0 to 100 V)
- Frequency
- Quadrature
- Manual
- Thermocouple (B, E, G, J, K, R, S, T)
- RTD (PT100)
- Velocity

#### Sample PMC IMACS graphic screen



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3600 GILMORE WAY, BURNABY B.C. CANADA V5G 4R8 TEL (604) 433-4644 FAX (604) 433-5570 www.pmc-controls.com