



# Eaton's MCC automation solutions

## Startup and training for your MCC

Eaton provides the most comprehensive and flexible motor control center (MCC) solutions in the market today. These solutions are multifaceted to provide the features you demand, from the most basic solutions, to solutions that include PLCs, HMIs and custom programming.

### Communication and automation overview

Regardless of the style of Eaton MCC you choose, it can be configured for any number of standard industrial networks to decrease your field wiring needs and to add valuable diagnostic data to increase uptime and run your process more efficiently.

Eaton has standard designs for DeviceNet™, Modbus®, PROFIBUS®, EtherNet/IP and Modbus TCP, allowing the Eaton MCC to integrate seamlessly into any commercially available PLC, DCS or SCADA system. Eaton's MCC offering includes the Power Xpert® gateway, which not only provides a comprehensive Web interface, but also seamless integration into the Power Xpert Architecture.

### Comprehensive services

When you order a smart MCC from Eaton, it is shipped factory wired and tested to ensure that the communications operates properly, thus simplifying startup. In addition to this standard service, you can choose to add other services supplied by Eaton's Electrical Services & Systems PSA (power system

automation) group of the Eaton Electrical Sector to ensure a trouble-free startup. These services include the following:

- Factory startup
- Operator training
- Maintenance training
- Turnkey design
- Post-sale support
- Service contracts to proactively maintain your equipment

### Startup services

#### Tier I startup

- Configure each network node address to your node list
- Verify communications to each network device
- Provide a hard copy of the network configuration for your records

#### Tier II startup

- Includes Tier I startup
- Configure each device parameter
- Configuration of each device's IO tables

#### Tier III startup

- Includes Tier II startup
- Point-to-point ring out of all control wires

### Training services

#### Tier I training

- Operator training
- Maintenance training
- How to replace a spare unit in an MCC

#### Tier II training

- Includes Tier I training
- How to reconfigure a factory supplied unit
- Classroom training / use of software configuration tools

#### Tier III training

- Includes Tier II training
- In-depth troubleshooting techniques



Powering Business Worldwide

## Turnkey solutions

The PSA group strengths come in the area of control and automation, making PSA the perfect tool not only for startup and training, but also for all of your control and automation needs. The PSA group is well versed in PLCs and HMIs of all makes, and has the resources to provide a turnkey solution per your control requirements. Once the system is designed, an engineer will arrive on-site to perform the startup of the system to ensure that your expectations are met.

## Service contracts

Eaton wants to ensure that your equipment is running in top shape at all times for years to come, which is why we offer service contracts to inspect your equipment on a periodic basis. Standard contracts are available for a site visit once per year to inspect your equipment, and also for a hotline to a PSA technical resource to provide troubleshooting for any issues that may arise.

## Technology upgrades

With the advent of so many newer solid-state overload relays (SSOLs) and communication solutions, upgrading to a new SSOL will also open doors to technology upgrades that were not available with legacy designs. Eaton has a Power Xpert Architecture linking all levels of your power structure to convenient Web servers for easy-to-understand information about your power system from a main or bus level down to the individual load.

Do you want to just have a safer way to get information from the starter? Installing an HMI and linking the starters together over a simple network is a fast and safe way to accomplish this. If a control upgrade is needed, installing a relay panel with a PLC connected to an industrial network is something that Eaton can help you with. Eaton supports all major industrial networks and has a powerful PLC offering that can be used to control and monitor all the starters.



## PSA training and post-order support

PSA is part of the award-winning Eaton Engineering Services and has strategic locations throughout the United States providing:

- Startup
- Training
- Post-sale support
- Turnkey design

The PSA group can be reached at 1-800-809-2772.

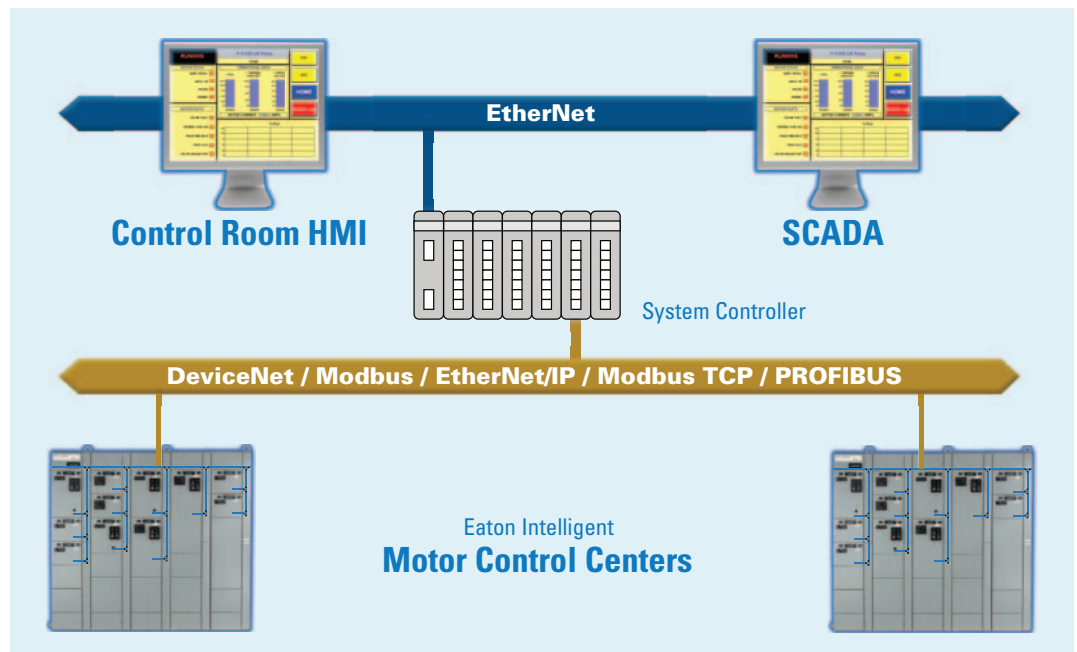
## Service Centers

Located strategically and geographically around the United States, Canada and Mexico are Service Centers, centers of excellence that will manufacture your MCC to your specific requirements.

To contact your local service center, call 1-800-653-8648 (1-800-OLD-UNIT).

## Legend

- PSA training and post-order support locations
- ★ Service Center locations



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