



# Elevator Controllers

## Elevator Control Systems

Elevators are made of two distinct systems: The mechanical system that provides the physical framework and finishes of the elevator, and the electrical system that provides and monitors the movement and safety of the elevator.

Controllers are the brains behind the electrical system of every elevator. Controllers are responsible for motion control, call dispatching, and safety functions, all while maintaining uninterrupted service.

In the past, controllers have relied on relay logic or even mechanical inputs to do their job. Today, they are purpose built and programmed computers that rely on high tech microprocessors.

This means that newer controller designs, such as the DMPC, have an increased level of safety through the use of redundant systems and fault checking systems. At the same time, they allow for great flexibility to accommodate today's varied elevating device needs and they allow for greater ease of upgrades when there are Code changes.

## Non-Proprietary Equipment

Similar to many intricate mechanical and electronic pieces of equipment, elevators and their components range in their proprietary nature.

Delta stands behind its product 100% and has both Mechanical and Electrical Engineering departments to provide technical support. Component prices are available on our web site – **Delta does not use parts pricing as a method to retain service contracts.**

Delta supports its elevators and controllers whether they are maintained by Delta or by another contractor. Delta's goal is to ensure a properly maintained, high quality product with a long service life and with minimal down time for the owner.

***Contact Delta if you have questions about what "non-proprietary" means in your specific elevator application. There are as many definitions as there are elevator companies and consultants in the industry!***

## The Delta DMPC Controller

**Proven Technology:** The Delta DMPC controller has been operational in the field for over 10 years, with hundreds of units installed and a track record of reliability.

**Feature Rich:** The Delta DMPC controller has industry leading features such as:

- Non-proprietary diagnostics
- Electronic soft-start or Wye-Delta
- Remote monitoring capability
- Regenerative drives (optional)
- Battery backup power fail evacuation
- Upgradeable to accommodate Code changes

**Affordability:** The Delta DMPC is competitively priced in comparison to both third party non-proprietary controllers and to OEM proprietary controllers.

**Serviceability:** The modular design of the Delta DMPC makes it easily serviceable. Common technology and service interfaces are used across all drive configurations.

***Delta is a Canadian manufacturer with a local support network for rapid response. We provide DMPC technical support to all maintaining contractors.***



**Integrity, Service & Quality since 1967**

# The DMPC



## Developed by Delta

The Delta DMPC controller was internally designed and developed to meet a broad range of ownership needs:

- It is robustly built to be maintained far into the future, minimizing life cycle costs;
- It shares a common software base and user interface across lift configurations, improving contractor familiarity and serviceability;
- It is integrated into the overall elevator design, ensuring a problem free interface with system components; and
- It can be customized to meet specialized elevating needs, including freight handling and health care.

Because we developed our own controller, Delta can ensure the future serviceability of your elevating device, including program upgrades to comply with new Code requirements as they are released.

***Our team of designers and engineers know the design of your controller and will support it regardless of the maintaining contractor.***



## Basic Features

- Modular design - reducing wiring to the elevator (data is carried on the serial bus from distributed I/O points)
- Simplex or group elevator operation
- CSA and B44/A17.1 approved
- Redundant monitoring of all critical circuits
- High speed microprocessor monitors all functions
- Diagnostic logging and cycle counting
- User-friendly troubleshooting interface
- Robust and proven solid state technology
- Upgradeable to accommodate future Code changes
- Universally compatible processors between DMPC's

## Advanced Features

- Regenerative drives (optional)
- Remote monitoring
- Optional battery evacuation for 1365 kg MRL elevators
- Solid state freight door control

## Applications

The DMPC is a flexible control platform capable of running many different drive configurations and can be used for both passenger and freight applications:

- Schools
- Hospitals
- Universities & colleges
- Commercial developments
- Condominium & apartment buildings
- Churches
- Parking garages

## Custom Controllers

Delta can custom design a controller for your unique specifications - customized elevator solutions are our strength.