

iControl™

iControl AC | iControl DC

Integrated, intelligent, intuitive: the next generation in elevator control technology

MCE iControl is designed to be integrated into today's intelligent buildings environment. Standard Ethernet connectivity, an advanced graphical user interface, and optional supporting applications including real time monitoring, reporting, archiving, and building automation integration make iControl the stand-out choice for modern elevator systems.

Whether your installation uses AC, AC permanent magnet, or DC machines, iControl provides full support for quality drives including KEB TorqMax, MCE 12-Pulse SCR, Magnetek HPV 900 Series 2, Magnetek Quattro AC, and Magnetek Quattro DC.

iControl supports ETA or Destination Based Dispatching systems. For most installations, no separate dispatcher is required. Any car in the group can be the designated dispatcher and, should it be taken off line, any other car in the group will seamlessly pick up the dispatching load. For large installations with heavy security, destination dispatching, or very sophisticated dispatching requirements, choose the stand-alone iCentral dispatcher.

iControl uses serial communications to reduce traveler wire counts and simplifies field connections through the available, iControl-specific, pre-labeled hoistway and traveler bundles. NEMA 1 and NEMA 4X hoistways are easily accommodated; the tapeless iLand for high-speed NEMA 1 hoistways or the robust LS-EDGE landing system for rugged hoistway conditions. The LS-EDGE is also used in low overhead clearance and slide guides applications.

Maximize return on investment and maintenance value. Select the system that provides a path forward through increasingly complex market requirements.

When the job deserves the best, think MCE iControl.



iControl AC

Applications

- Modernization or new construction
- Low-rise through high-rise — up to 96 stops/192 openings, as little as one inch between floors
- Gearless or geared, DC, AC induction or AC permanent magnet
- Groups up to 15 cars
- 1,800 fpm, 9.14 mps

Benefits

- Intelligent — automated calibration, dispatching and traffic-handling allow iControl to learn and optimize for specific building requirements, increasing owner and tenant satisfaction.
- System self-configures for standard commissioning tests — you select the test, iControl sets up for it.
- Intuitive — Windows-based user interface is easy to learn and use, reducing installation time and maintenance cost.
- Safe — the most direct, advanced solution available, designed for ASME A17.1/CSA B44 and CSA B44.1/ASME A17.5 compliance, with robust engineering that anticipates updates.
- Cost-effective — streamlined, field-configurable hardware design. Fewer components to install, maintain or replace.
- Flexible — modular software and hardware layers accommodate changing system needs, gracefully and economically.
- Responsive — robust Ethernet interface facilitates secure remote monitoring, remote equipment control, remote diagnostics, even real time remote troubleshooting and adjustment.
- Create and configure complex car and group installations off site — then upload remotely or from the machine room. Create and re-use a “golden” file with minor adjustments from job to job.

www.nidec-mce.com

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MCE
Motion Control Engineering®

A Kinetek Company®

The leader in non-proprietary controllers, technical services and repair solutions for elevator modernization.

iControl specifications

	iControl AC	iControl DC
Maximum car speed	1,800 fpm, 9.14 mps	1,800 fpm, 9.14 mps
Configuration	Simplex and group	Simplex and group
Landings	96	96
Drive type	KEB TorqMax, Magnetek 900 HPV Series 2, or Magnetek Quattro AC	MCE 12-Pulse SCR or Magnetek Quattro DC
Motor control	Velocity feedback	Velocity feedback
Landing system	iLand - Sensors and magnetic encoding ensure absolute hoistway position. Tapeless, low-maintenance system. LS-EDGE - Robust, high accuracy, perforated steel tape/hall-effect sensor system for low overhead or NEMA 4X applications. Power fail position retention and simple RJ-45 connectivity. The LS-EDGE is also used in low overhead clearance and slide guides applications.	
Configuration, monitoring and reporting	iControlware suite for configuration, monitoring, reporting, archival and BMS integration. Includes iView, iMonitor, iReport, BMS-LINK, SENTRY Security, and specialty jail transport applications.	
Dispatching	PC-based or embedded microcontroller software intuitively assigns calls and continuously monitors efficiency. ETA dispatching standard; Destination Based Dispatching available with iCentral.	
Environment	32–104°F, 0–40°C, humidity non-condensing up to 95%; harsh environment rugged service options available	
Standard enclosure	42" w x 72" h x 16" d, 914.4 x 1,447.8 x 304.8 mm Enclosure size may vary per specific application	

iControl features

Intelligent dispatching software

- Powerful, software-based dispatching engine uses artificial intelligence to continually optimize dispatching decisions.
- Easily modify, refine and scale configuration to meet changing traffic patterns.
- Modular upgrades ensure long-term performance, flexibility and return on investment.
- Real-time car status information delivered via high-speed, high bandwidth network for optimized response.

iControlware suite

- Windows-based interface enables on-site or remote analysis, diagnosis and parameter adjustment.
- Easily set up and adjust controller configuration.
- Conveniently and flexibly manage multiple elevators and locations from a single PC.
- Client-server system gathers, archives and reports elevator performance data for on-site or remote access.
- Flexible programming options for on-demand or scheduled reporting of performance criteria.
- Automated, fully-configurable maintenance requests initiated from the controller.

Precision landing systems

- Innovative systems use sensors and magnetic encoding to ensure absolute hoistway position.
- iLand tapeless or LS-EDGE perforated steel tape systems available.
- Systems maintain car position across power failure.

Cartop wiring connection box

- Reduced traveling cable wire count for labor and material savings. Plug-and-play installation reduces setup time.
- Traveler and hoistway cable tailored for iControl. All conductors clearly labeled and color-coded. Eliminate connection errors and save installation time.