

Motion 4000™ Traction Control

Ideal traction control solution for low-rise to mid-rise projects

The MCE **Motion 4000** traction elevator control is designed to squarely meet the needs of elevator installations requiring speeds to 450 feet per minute, service up to 32 stops, and elevator groups to 6 cars. Motion 4000 makes the jobs of installers, adjusters, and maintenance personnel as straightforward as possible, stressing minimal hardware requirements, “out-of-the-box” job readiness, and simple adjustment.

Installers

- Only final limit switches are required. Slowdown and ETS switches are virtual through the landing system.
- No door zone magnets required.
- Hall call fixtures are connected serially along a simple, four-wire drop, providing signal communication and fixture power (available on mGroup).
- Additional buttons or key switches can be connected to the hall call bus using MCE supplied node boards (available on mGroup).
- Absolute position/speed feedback uses a lightweight 1/2-inch wide encoded tape. Easy to hang; absolute position at all times — even under power loss.
- Traveling cable reduced to less than 20 conductors.
- Universal I/O boards for field connections accept 24 to 120 volt inputs, AC or DC.

Adjusters

- Factory pre-adjusted per job requirements.
- Easy, hand-held device (mPAC) lets you learn and adjust floor heights, allows car call entries. mPAC connects in the car, cartop or in the machine room.
- Simple parameter entry using the basic (LCD display/button entry) or optional (mView) entry devices.

Maintenance

- Plug the hand-held mPAC device into any controller or car CAN Bus port and diagnose the entire system.
- Components shared with MCE’s Motion 2000 hydraulic controller.
- Built-in event log with 100 events.

Benefits

- Absolute position/distance feedback
- Low- and mid-rise applications
- Up to 450 fpm (2.3 m/s), 32 stops, simplex/duplex/groups to 6 cars
- Front and rear openings (32 each)
- No leveling magnets, slowdown, or emergency terminal switches needed
- Simple installation, adjustment, and maintenance
- Minimal traveler and hoistway cable wire counts; minimal compensation requirement
- Universal I/O with built-in protection
- Easy setup and diagnostics
- PC configuration tool — mView
- Seamlessly integrated with iMonitor and BMS Link/Lift-Net
- Short floor minimum 3”



www.mceinc.com

800.444.7442
916.463.9200

MCE
Motion Control Engineering®
A Kinetek Company®

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

Motion 4000 specifications

Maximum car speed	450 fpm, 2.3 m/s
Configuration	Simplex, duplex, 6 car group (maximum)
Landings	Up to 32 with 64 openings
Drive type	VVVF AC or DC*
Motor control	Closed loop/velocity feedback
Landing systems	Magnetically encoded tape, 1 mm resolution
System access	Hand-held basic or advanced user interface
Monitoring	iMonitor, IDS Lift-Net™, BMS Link
Report generation	iReport
Lobby display	iLobby
Environment	32–104° F, 0–40° C, relative humidity non-condensing up to 95%; harsh environment rugged service available (NEMA 4, 4X, 12)
Standard enclosures	Enclosure size may vary per specific application

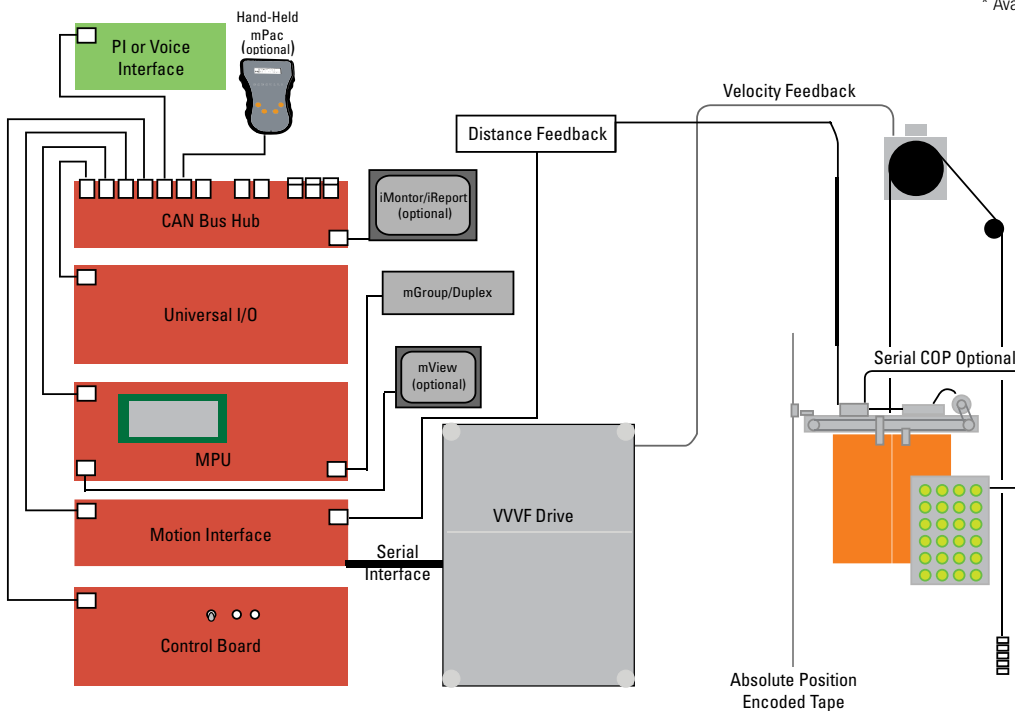
Features

- Serial hall call (optional - mGroup)
- Serial COP (optional)
- Full distance feedback
- Universal I/O (24 to 120V AC or DC)
- DC*, ACPM or AC induction motor compatible
- Serial PI and voice annunciation interface
- iMonitor, iReport, iLobby, BMS Link or IDS ready (monitoring, reporting, lobby display)
- Onboard event log, up to 100 events

Compliance

- ASME A17.1/CSA B44
- CSA B44.1/ASME A17.5
- BS EN 81
- AS 1735
- EN 12015 and 12016

* Available Fall 2011



www.mceinc.com

800.444.7442
916.463.9200

MCE

Motion Control Engineering®

A Kinetek Company®

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