

## 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 400 feet per minute, service up to 32 stops, and elevator groups to 8 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 eliminated.
- No door zone magnets required.
- Hall call fixtures are connected serially along a simple, four-wire drop, providing signal communication and fixture power.
- Additional buttons or key switches can be connected to the hall call bus using a small node board provided by MCE.
- 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.
- Traveler cable wire count reduced to approximately 16 conductors. Easy to hang and requiring less compensation.
- Universal I/O boards for field connections accept 24 to 120 volt inputs, AC or DC. Standard 24, 48, and 110 volt compatibility with no board changes.

#### Adjusters

- Factory pre-adjusted per job requirements.
- Easy, hand-held entry device lets you make a single, inspection-speed run through the hoistway, stopping and setting floor levels as you go. Hand-held device connects in the car, cartop or in the machine room.
- Selectable, pre-determined performance curves or create your own.
- Simple parameter entry using the basic (LCD display/button entry) or optional (color/touchscreen) entry devices.

#### Maintenance

- Recommended “spares stock” is two boards; one universal I/O and one hall node board.
- Plug the hand-held entry device into any controller or car CAN Bus and diagnose the entire system.
- Components shared with MCE’s Motion 2000 hydraulic controller.

#### Benefits

- Flexible component location suits small machine room and machine roomless jobs
- Absolute position/distance feedback
- Low- and mid-rise applications
- Up to 400 fpm (2.0 m/s), 32 stops, simplex/duplex/groups to 8 cars
- Front and rear openings (up to 64)
- 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 electrical protection
- Easy setup and diagnostics



[www.mceinc.com](http://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™ Traction Control

## Motion 4000 specifications

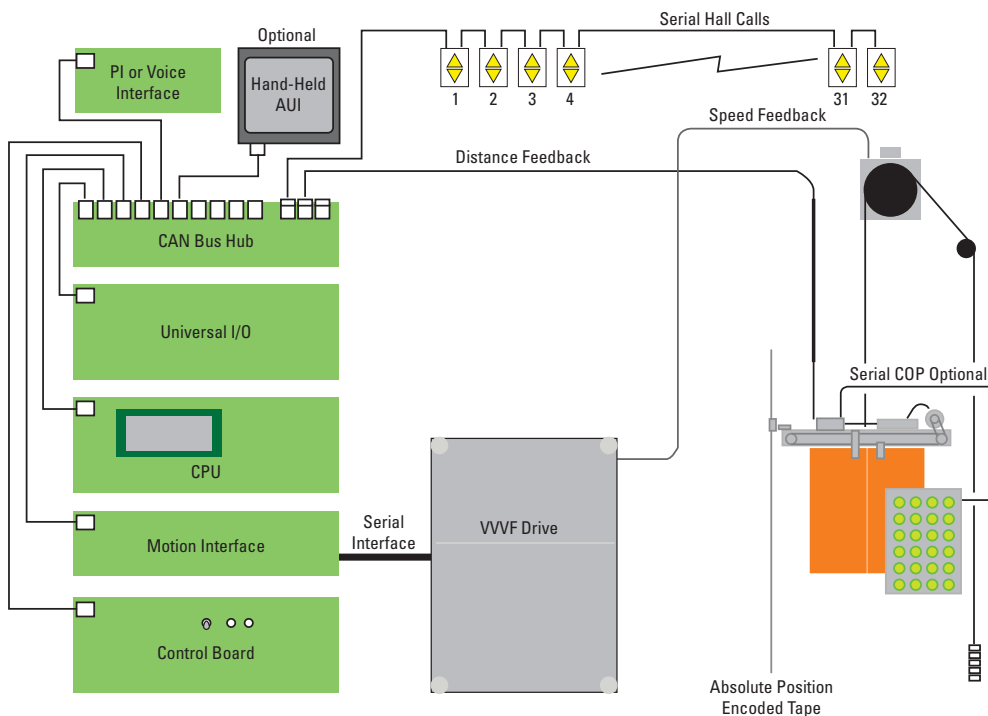
<b>Maximum car speed</b>	400 fpm, 2.0 mps
<b>Configuration</b>	Simplex, duplex, 8 car group (maximum)
<b>Landings</b>	Up to 32 with 64 openings
<b>Drive type</b>	VVVF AC or DC
<b>Motor control</b>	Closed loop/velocity feedback, PMAC/Induction
<b>Landing systems</b>	Magnetically encoded tape, 1 mm resolution
<b>System access</b>	Hand-held basic or advanced user interface
<b>Monitoring</b>	iMonitor, IDS LiftNet
<b>Report generation</b>	iReport
<b>Lobby display</b>	iLobby
<b>Environment</b>	32–104° F, 0–40° C, relative humidity non-condensing up to 95%; harsh environment rugged service available (NEMA 4, 4X, 12)
<b>Standard enclosures</b>	Enclosure size may vary per specific application

### Features

- Serial hall call (optional)
- Serial COP (optional)
- Full distance feedback
- Universal I/O (24 to 120V AC or DC)
- DC, PMAC or AC induction motor compatible
- Serial PI and voice annunciation interface
- iMonitor, iReport, iLobby, or IDS ready (monitoring, reporting, lobby display)

### Compliance

- ASME A17.1-2004/CSA B44-04
- CSA B44.1-04/ASME A17.5-2004
- BS EN 81
- AS 1735
- EN 12015 and 12016



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.