

Since 1973


ESI ELEVATOR
SYSTEMS

The Controller People

INTRODUCING ES2 AND LIFT-*i* – OUR NEXT-GEN ELEVATOR SOLUTIONS

Elevator Controllers By ESI

Manufacturers of high-performance controllers

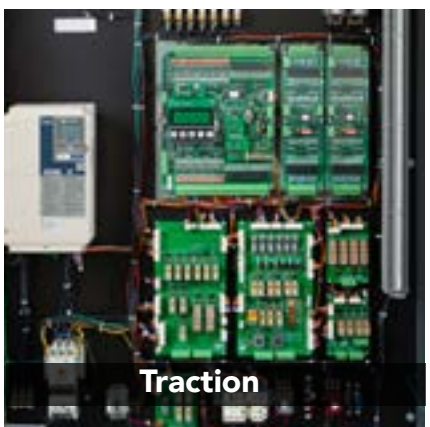
Made in USA 



About Us

Since 1973, Elevator Systems has been manufacturing high-performance, non-proprietary elevator controllers. ESI has partnered with building owners and contractors for more than 50,000 new installation and modernization projects. Along with excellent technical support and after sales service, ESI offers a fully stocked warehouse for replacement parts, accessories and circuit boards. We are known for long lasting, high quality and reliable controller solutions with minimal maintenance, down time and troubleshooting.

Made in USA 



Traction



Hydraulic



Door Lock Monitoring

Product Portfolio

ESI manufactures a full line of microprocessor based elevator controller solutions.

We serve both Commercial and Residential industry with our reliable Traction and Hydraulic controller solutions manufactured with premium elevator components. Every solution we offer is fully inspected and tested to ensure seamless installation and reliable operation.

ES2 Next-Generation Elevator Control System

Higher | Faster | Smoother

Available for Traction and Hydraulic Applications



Features

- 1000 Feet Per Minute
- 128 Stops
- 8 Car Group
- Touch Enabled Screen
- Virtual Limits
- Full Serial Car and Hall
- Brake Board

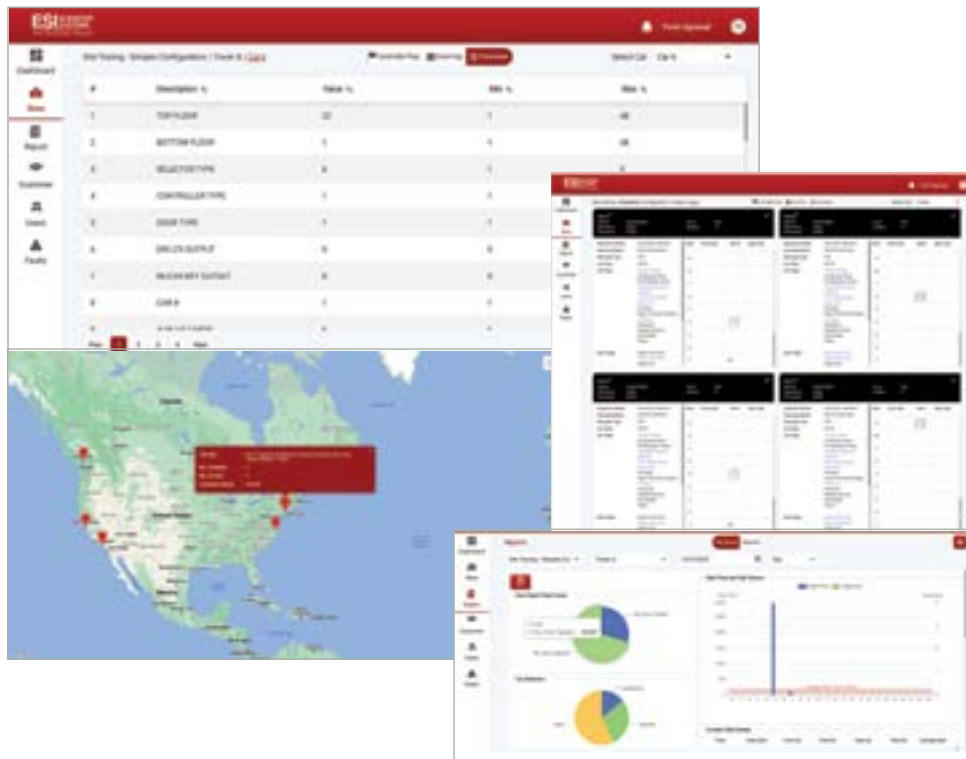
Optional Features

- Snap in Terminals
- Lift-i: Subscription Based Remote Monitoring on the Cloud

Lift-i Monitoring Solution

Subscription Based Cloud Monitoring on PC or Smart Device

Lift-i is designed to meet real time monitoring and control needs of your elevator system. It can report elevator position, status, performance and enhanced fault logging at any given time and location.



Features

- 24/7 access to the health of the controller
- Assign elevators to crews/mechanics
- Generate reports ranging from statistical data, counters and faults and errors
- Partner with ESI engineers to resolve issues sooner
- Email/Text Notifications in case of faults

Traction Elevator Control System

Controller designed to operate in Geared, Gearless, and MRL applications

Specifications

- State of the art microprocessor-based design
- Variable Voltage Variable Frequency or DC Machine control
- Discrete or Serial Link
- ASME A17.1/CSA B44 Code Compliance
- UL Certified
- Max Car Speed: 500 FPM (As needed)
- Maximum Stops: up to 32 (As needed)
- Group Size: 1-4 Car

Features

- Integrated user-friendly interface for adjusting controller parameters
- Cables and I/O inputs are clearly labeled for ease of installation and to significantly reduce wiring errors
- Factory Programmed Frequency Drive
- Force Guided Relays to meet and exceed compliance
- Optically Isolated inputs with Red Status LEDs
- Dry Contact Outputs with Green Status LEDs
- TS-89 Leveling Device included with every controller
- Ability to display Event and Statistical Information
- Car Traveling and/or Hall Lantern Interface
- Anti-nuisance, Independent Service and additional standard
- Software features

**Code compliance 2013 (NYC/National),
2016 (NYC/National) and 2019 (National)*



Options

- Remote Monitoring
- Regenerative Capabilities available
- Traction Elevator Emergency Return System
- Emergency Power Provisions
- Attendant Service
- Load Weighing Capabilities and Equipment
- Machine Brush Kits
- EMIS/RFI Filter
- Short Floor Run Operation
- Flooded Pit Switch
- Out of Service Indicator
- Car to Lobby Key Switch Input
- Sabbath Service
- Additional features available
- CE Driver Integration
- Code Blue/Hospital Service
- Card Reader Interface and Floor Lock Out

Hydraulic Elevator Control System

Controller designed to work in a low-rise hydraulic application

Specifications

- State of the art microprocessor-based design
- Discrete or Serial Link
- SME A17.1/CSA B44 and Code Compliance
- UL Certified
- Max Car Speed: (As needed)
- Maximum Stops: (As needed)
- Group Size: 1-4 Cars
- Starting Options: Electronic Soft Start, Wye/Delta and Across-the-Line



Features

- Integrated user-friendly interface for adjusting controller parameters
- Cables and I/O inputs are clearly labeled for ease of installation and to significantly reduce wiring errors
- Factory Installed Soft Start
- Force Guided Relays to meet and exceed compliance
- Optically Isolated inputs with Red Status LEDs
- Dry Contact Outputs with Green Status LEDs
- TS-89 Leveling Device included with every controller
- Ability to display Event and Statistical Information
- Car Traveling or Hall Lanterns Interface
- Car and Hall Acknowledgement Lights
- Anti-nuisance, Independent Service and additional standard software features
- Low Oil Feature

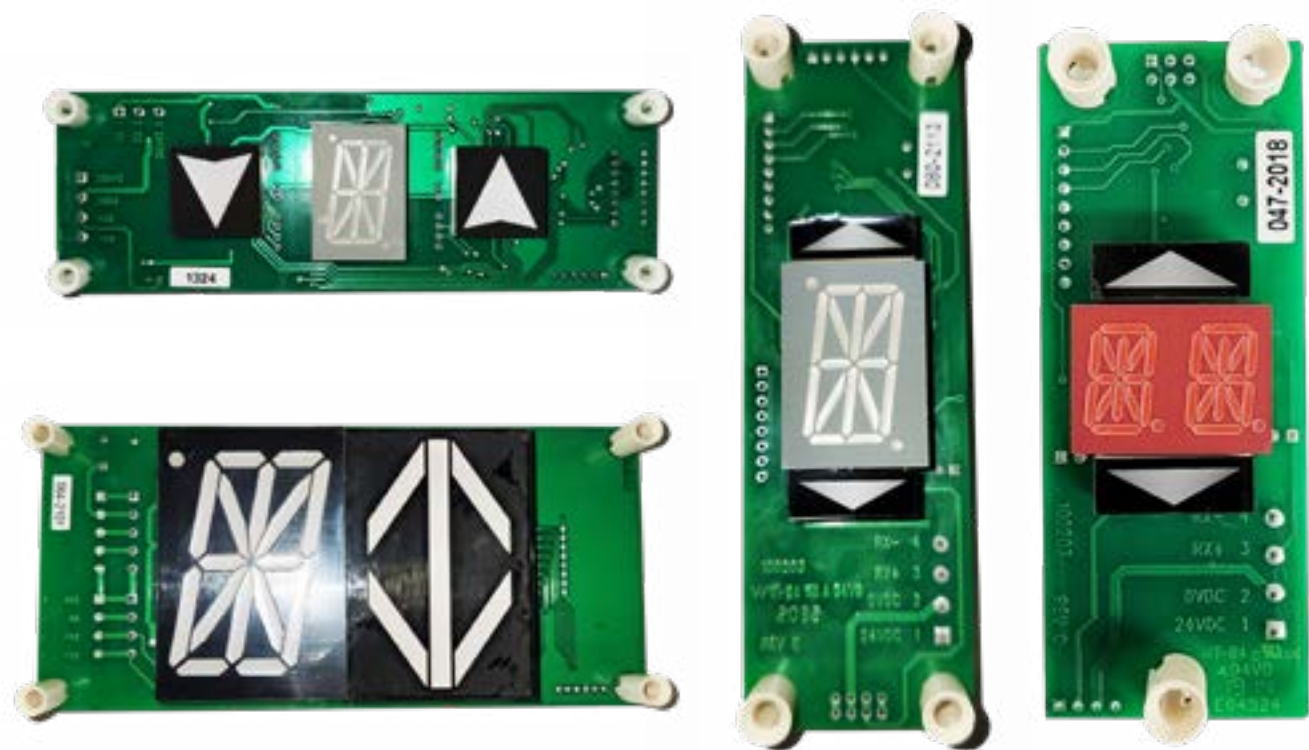
**Code compliance 2013 (NYC/National),
2016 (NYC/National) and 2019 (National)*

Options

- Remote Monitoring
- Attendant Service
- Load Weighing Capabilities and Equipment
- CE Driver Integration
- Code Blue/Hospital Service
- Sabbath Service
- UPS Battery Lowering
- Oil Temperature Monitoring
- Card Reader Interface and Floor Lock Out
- Short Floor Run Operation
- Emergency Power Provisions
- Flooded Pit Switch
- Out of Service Indicator
- Car to Lobby Key Switch Input
- Additional features available

ESI Digital Position Monitoring (Always Non-Proprietary)

High Quality, long lasting Digital Position Indicators.



Features

- Indicates Floors and Direction
- Single and double digit capability
- Horizontal Or Vertical configurations available
- 2, 1, and ½ inch sizes available
- Passing chime option available
- Travel lantern option available
- Dip switches for easy field setup
- RS-485 Communication protocol

Load Weighing Equipment

Where required, Controller can be equipped with Load Weighing interface. Our devices can be mounted either to the ropes or on the cross-head.

ESI Voice Annunciator can be supplied to indicate the car is overloaded.

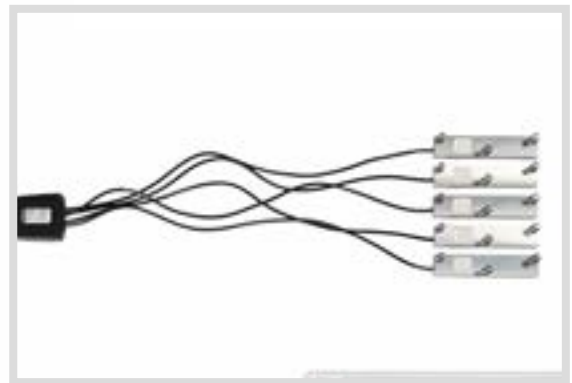
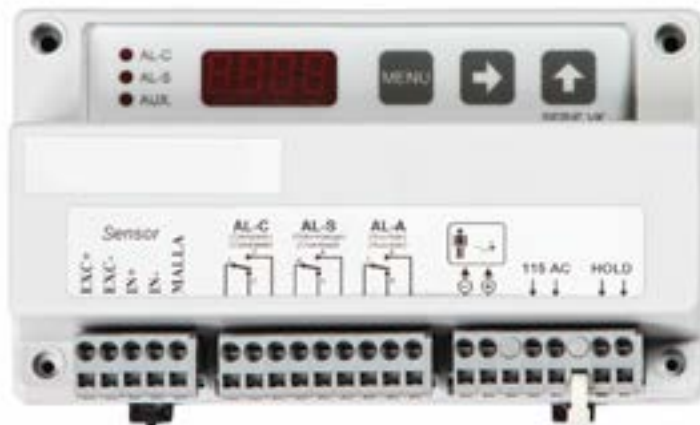
Specifications

Roped Applications:

- Typical Rope sizes: 10mm (3/8"), 13mm (1/2"), 16mm (5/8")
- Typical number of ropes: From 3 to 8

Crossed Applications:

- Single sensor (under 6 Landings)
- Dual sensors (Over 6 Landings)



Features (Dependent on the model)

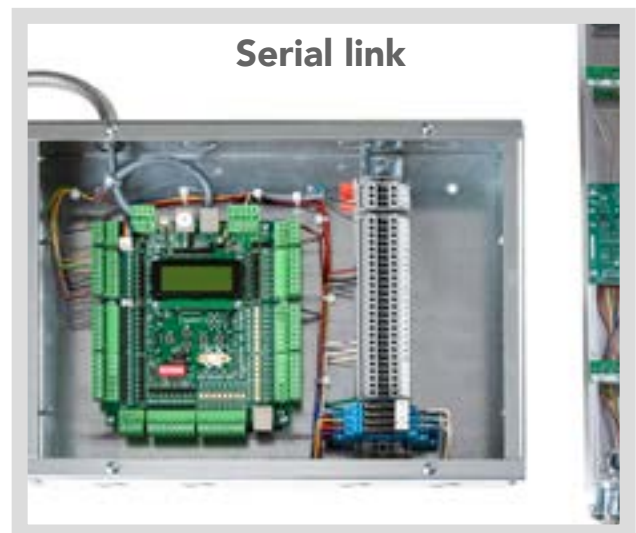
- Easy/User friendly programming of the device with digital read out
- Configurable for most controllers depending on specifications
- Code compliant Alarm Includes: Presence, Full Load and Overload
- Accurate to +/- 3%
- Detection of Errors
- Auto or Manual Calibration
- Field Selectable to Display Hanging or in car Weight
- Setpoints can be adjusted without weights
- 3 Programmable relays

TS-89 Tape Selector System

Our tape head reads magnets attached to steel tape, signaling the controller for door zone, leveling and slow down.

TS-89 Kit Includes:

- Steel tape
- Cable
- Frame & mounting hardware
- Sensors
- Installation template
- Magnets
- Schematic



Features

- Modular Design – Allows for easy installation, maintenance and repair
- Solid Construction – Built to endure daily punishment
- Every unit is custom engineered to individual job specifications
- Reliable solid state PC board design
- Takes up a minimum amount of space
- LED indicators for all signals are located on the back of the sensor head
- Offered in Discrete or Serial link configuration

Teers- Traction Elevator Emergency Return System

In the event of a power failure, ESI provides a TEERS add-on that monitors the incoming electrical power to the elevator control systems. It provides single-phase power to the controller and brings the car to the closest floor (up or down). This eliminates the entrapment of any passengers during a power outage. When normal power is restored the TEERS will switch over and supply the elevator from incoming electrical power.



Features

- On board controller
- Diagnostic LCD screen and user interface
- Lockable shut-off switch
- Three phase input
- UPS bypass control switch
- UPS status monitor via dry contact output
- Test button to simulate power failure

EMIS-100 Elevator Monitor and Information System

The EMIS-100 is designed to meet real time monitoring and control needs of your elevator system. It can report elevator position, status, performance and enhanced fault logging at any given time and location. EMIS-100 offers capability to remotely adjust parameters, lock out or open floors, start/shut down cars.

The solution can be tailored to:

1. Display formats suitable for the lobby, security, maintenance, and management locations.
2. Graphical and text display of car position and state.
3. Systems for any size operation – from one building to one hundred.
4. Information gateway for monitoring SCADA systems.



Features

- Based on specs, it has the capability to lock/unlock floors
- Start/Shut down cars
- Enhanced Fault Logging
- Ability to change parameters
- Includes graphical and text view of a system summary, group performance reports, detailed elevator car information, and a shaft view.

Accessories

Drives



Soft Starts



Door Lock Monitoring



Transformers



Additional Supplies

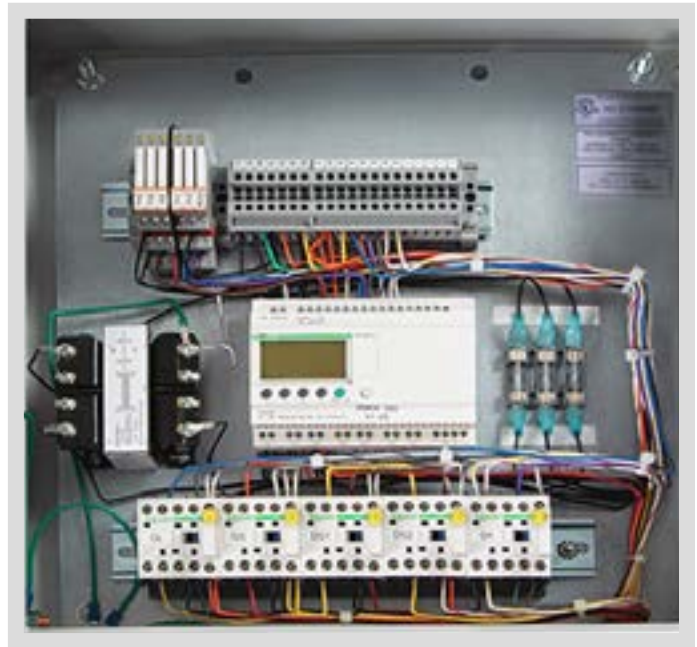
- Printed Circuit Boards, Relays, Contactors
- Input Filters: 30A(10HP), 45A(15HP), 60A(20HP) and can be added to the controller
- Regenerative Drives/Choke: Available on request
- Governors and 12-inch Tension Sheaves: 100 FPM, 150FPM and 200 FPM
- Endat Cables (KEB): 10-15-30-40-50-75 and many more...

For more information on accessories and replacement parts **Contact Us at 516.239.4044**

Door Lock Monitoring

ESI offers a UL certified door lock monitoring solution that works well with almost all types of controllers made by different manufacturers. Our solution comes with installation schematics and technical instructions to allow seamless integration with your client's existing controller.

With more than 7,500 successful installations of door lock monitoring solutions in New York, we are confident we are ready to meet your door lock monitoring requirements for all states.



Features

- Monitors for short circuits across door locks and car gate switches
- Monitors door position
- Prevents the car from running when failure modes are detected

**The units work with 230/120VAC. For other signal voltages, please call the factory.*

**Depending on the configuration the actual product maybe different from the image shown.*

Fire Phase I/II

NYC Compliance

Fire Phase I/II violations due to Door Lock Monitoring upgrade need a compliance solution.



ESI Solution

A robust panel that will get the elevator compliant to NYC Fire Phase I/II requirements.

- Compatible with existing ESI Controllers
- Retrofitted for Other Controllers

ESI has completed multiple Fire Phase Installations in NYC that have passed City's Inspection.

Rope Gripper

NYC Compliance

All elevators need to be equipped with Rope Gripper or E-Brake by 2027.



ESI Solution

- Offers an easy to install upgrade which is retrofitted with "Rope Gripper" controls for:
- ESI Controllers
- Retrofitted for Other Controllers

Notes

ESI ELEVATOR SYSTEMS

The Controller People

Made in USA 

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