MITSUBISHI ELECTRIC US, INC.
ELEVATOR AND ESCALATOR DIVISION

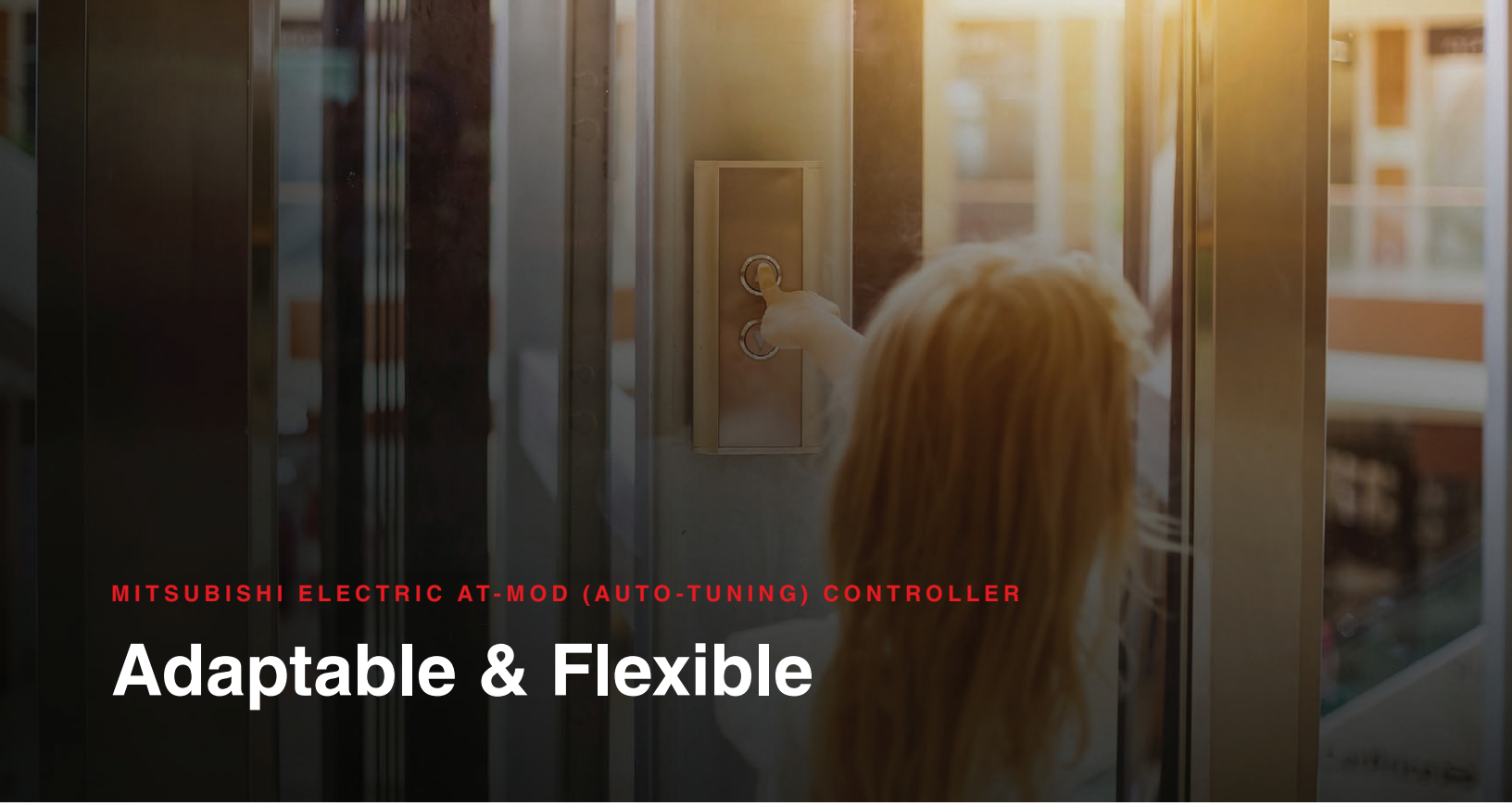


AT-MOD

(Auto-Tuning)

Modernization by Multi-Brand Integration

A proven standard of performance, safety, and long-term value—
engineered to extend the life of your vertical transportation.



MITSUBISHI ELECTRIC AT-MOD (AUTO-TUNING) CONTROLLER

Adaptable & Flexible

Our Multi-Brand Modernization solution enhances elevator safety, ride comfort, and performance through the integration of a Mitsubishi Electric control system. Designed for broad compatibility with a wide range of existing equipment, our control system provides flexibility to meet diverse project requirements, including building design constraints, budget considerations, and delivery schedules.

By positioning the Mitsubishi Electric control and fixture systems as the foundation of our partial modernization approach, we deliver the quality, reliability, safety, and operational efficiency that customers have come to expect from Mitsubishi Electric. The result is a **cost-effective modernization solution** that extends equipment life while improving performance and passenger experience.

QUALITY

A highly reliable control panel and Mitsubishi Electric car and hall indicators.

FLEXIBILITY

Auto-tuning to other manufacturers' traction machines and locally sourced components.

DESIGNED FOR EVERYONE

A smarter, more sustainable, more serviceable elevator for every passenger.

THE FOUNDATION

Quality

Mitsubishi Electric Control Panel

- **Intelligence**
- **Reliability**
- **Consistent Performance**

Our highly reliable control panel ensures safety and comfortable ride. Incorporating our overall quality enhances your asset value.

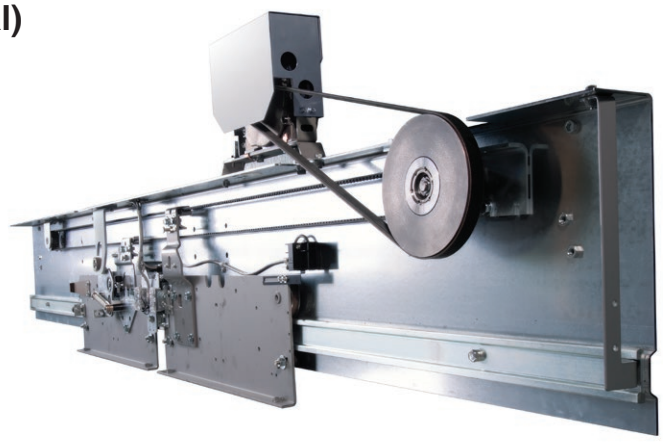


A Mitsubishi Electric control system at the center of your existing elevator — so quality, flexibility, and the passenger experience all improve together.

Mitsubishi Electric Door Operator (Optional)

Designed for Efficiency

The Mitsubishi Electric Door Operator utilizes a streamlined platform with standardized components to support faster compliance updates, improved production efficiency, and dependable long-term performance.



Car & Hall Fixtures

Car Fixtures

Car Operating Panels







CBF-US112
Plastic round-type
micro stroke click button



CBV-US112
Stainless steel round-type
micro stroke click button



CBF-US111/
CBV-US111[*1]



Design and lighting color selections

Full-face Illumination



Yellow orange



White
(California code compliant)

Halo Illumination



Yellow orange



White

Car Lanterns[*2]



WHEN LIT



CLV-US110
Frosted clear
acrylic lens

Yellow orange (UP)
Red (DOWN)

Lighting color selections



Yellow orange
(UP & DOWN)



White
(UP & DOWN)

Hall Fixtures

Hall Lanterns



HLV-US220
Frosted clear acrylic lens
Orange (UP & DOWN)



HLV-US120
Frosted clear acrylic lens
Orange (UP & DOWN)



HLVD-US20
Milky white acrylic lens
without faceplate[*3]

WHEN LIT



Yellow orange (UP)
Red (DOWN)

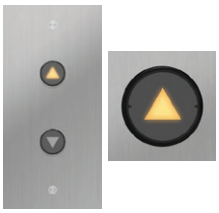
Hall Position Indicator with Lantern



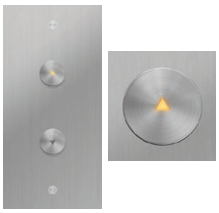
Position indicator: LED dot display

– Lantern lighting color: see Hall Lanterns.
– Not applicable to ΣAI-2200C, excluding on the main floor.

Hall Buttons

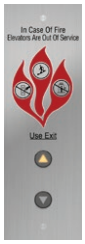


HBF-US110
Plastic round-type
micro stroke click button



HBV-US110
Stainless steel round-type
micro stroke click button

With etched pictograph



HBF-US210
Plastic
round-type
micro stroke click button



HBV-US210
Stainless steel
round-type
micro stroke click button

Lighting color selections

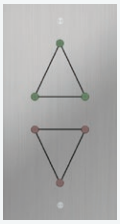


Yellow[*4] orange (UP & DOWN)



White[*4] (UP & DOWN)

Design selection



Vandal resistant

WHEN LIT



Green (UP)
Red (DOWN)

Design and lighting color selections

Full-face



Yellow orange



White (California code compliant)

Halo



Yellow orange



White

NOTES

*1 This design is for California and other states and regions where compliance with a previous version of ASME code is required.
*2 Car lanterns are not applicable to elevators equipped with ΣAI-2200C group control system.
*3 Wall finish is not included in elevator contract.
*4 The custom colors are applicable to hall lanterns regardless of their shape.

Actual colors may differ slightly from those shown.

Signal Fixtures & Features

Signal Fixtures for DOAS

Hall Operating Panels

Touch/touchless screens

Surface mounted type



Touchless screen mode

Touchscreen mode

HSP-A29B
10.1-inch touch/touchless screens with card reader*
(California code compliant)

Embedded type



HSP-C18A
10.1-inch touchscreen
with card reader*

Custom keypads

Embedded type



5.7-inch LCD display
& vertical face button



For California (California code compliant)
5.7-inch LCD display & slant face button

Hall Lanterns

Triangle flag



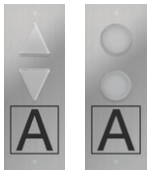
HLF-A10B / HLF-A11B (with chime)
Lighting: Yellow orange when lit

Custom rectangle flag



Lighting: Yellow orange when lit

Elevator number appended



Elevator number:
– Stainless steel #4
– Black etched letter in frame

Lighting color:
See Hall Lanterns on page 4

Elevator number illuminated



Faceplate: Stainless steel #4
Lighting: White when lit

Other Major Features

In addition to features already described, a wide variety of convenient features is available.

For improving operational efficiency

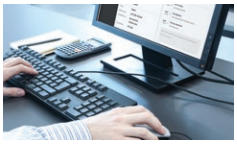
- **Strategic Overall Spotting [SOHS]**[*1] (Standard)
  Cars that have finished service are dispersed to stand by at floors where they can respond to predicted future hall calls as quickly as possible so as not to keep passengers waiting for long.
- **Main Floor Parking [MFP]**[*1] (Optional)
  One of the available cars in a group stands by for a hall call at the lobby (main) floor.

For safety in case of emergency

- **Mitsubishi Emergency Landing Device [MELD]**[*1] (Optional)
  Upon power failure, a car equipped with this function automatically moves and stops at the nearest floor using a rechargeable battery, and the doors open to facilitate the safe evacuation of passengers.
- **Earthquake Emergency Operation [EER-DS]**[*1] (Standard)
  Upon activation of a seismic sensor, all cars stop at the nearest floor, and park there with the doors open to facilitate the safe evacuation of passengers.
- **Mitsubishi Elevators & Escalators Monitoring and Control System – MelEye [WP-W]** (Optional)
  Each elevator's status and operation can be monitored and controlled using an advanced Web-based technology which provides an interface through personal computers. Special optional features such as preparation of traffic statistics and analysis are also available.



MELD image

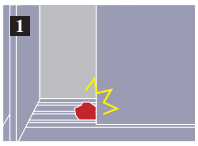


MelEye image

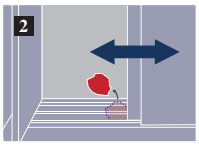
For safer door operation

- **Door Load Detector [DLD]**[*1] (Standard)
  If an obstacle has been caught between the doors and an abnormal door load is detected when opening or closing, the doors immediately reverse to prevent an accident or malfunction.
- **Repeated Door-close [RDC]**[*1] (Standard)
  If an obstacle has become lodged in a sill groove and prevents the doors from closing completely, the doors will repeatedly open and close until the obstacle is removed from the doorway.

Repeated Door-close image



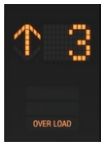
An obstacle is lodged in the sill groove.



The closing doors reverse to open and repeat closing and opening until the obstacle is removed.

For further convenience

- **Overload Holding Stop [OLH]** (Standard) **& Overload Holding Stop Light – Car [OLHL]**[*1] (Optional)
  A buzzer sounds to alert the passengers that the car is overloaded. The doors remain open and the car will not leave the floor until enough passengers exit the car. [OLH] The indicator, when incorporated in the car operating panel, illuminates to show that the car is overloaded. [OLHL]
- **Non-service Temporary Release for Car Call – Card Reader Type [NSCR-C]** (Optional)
  Non-service to Specific Floors can be temporarily released by swiping a card through the car operating panel.



OLHL image



NSCR-C image

NOTES

* Card reader is to be supplied by customer. Contact our representative for more details.

*1 The feature may be installed in the elevator which is currently in use.

ADAPTABLE BY DESIGN

Flexibility

Utilizing other manufacturers' traction machines

We provide an adaptable solution that allows the modernization of your system within the limitations of the existing machine room space. By connecting our control system with third-party manufacturers traction machines, the auto-tuning function optimizes performance for maximum ride comfort.



Flexible local component arrangement

Our control panel is compatible with many local components available in various markets. For example, by selecting suppliers based on budgets, delivery schedules, and specifications.

Budget

Source components to the project's cost target without compromising control quality.

Schedule

Select locally available parts to shorten lead times and reduce downtime.

Specification

Match existing equipment and machine-room constraints as found on site.

Auto-tuning does the adapting, so your building doesn't have to—one control system, broad compatibility.

VALUE DELIVERED

Designed for Everyone

By positioning the control panel as the cornerstone of our partial replacement solution, we deliver a smarter experience through seamless building integration, sustainable operations through the optimal use of existing assets, and enhanced serviceability with locally sourced components—all backed by the long-lasting reliability and quality of Mitsubishi Electric.



Enhanced Passenger Experience

Premium Comfort

A smoother, quieter, and more comfortable ride for all passengers.

Seamless Integration

High compatibility with existing building systems and infrastructure (DOAS (Destination Oriented Allocation System), robot operation, etc.).

Simplified Serviceability

Reliable Maintenance

Designed for ease of maintenance with readily available local components.

Proven Support

Comprehensive service capabilities backed by Mitsubishi Electric control systems and an extensive maintenance network.

Sustainable Modernization

Maximized Asset Value

A strategic partial replacement approach that extends the life of existing equipment while improving performance.

High-Efficiency Operation

Energy-saving performance driven by Mitsubishi Electric's advanced control technology.

Trusted Mitsubishi Electric Quality

Long-Term Assurance

Confidence and peace of mind through a lasting partnership with Mitsubishi Electric, built on reliability, quality, and support.

AT-MOD

Ready to modernize?



Adaptable Design ▪ Flexible Integration ▪ Intelligent Performance

With locations in California, Nevada, Washington, Hawaii, Texas, Illinois, Washington, D.C., Massachusetts, Florida & Tennessee, Mitsubishi Electric US, Inc., Elevator and Escalator Division stands ready to service elevators and escalators, regardless of brand.

To learn more, visit **mitsubishielevator.com** or call (714) 220-4720.

MITSUBISHI ELECTRIC US, INC., ELEVATOR AND ESCALATOR DIVISION
CORPORATE HEADQUARTERS
5900-A KATELLA AVENUE, CYPRESS, CA 90630
PHONE: (714) 220-4720
MITSUBISHIELEVATOR.COM

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