

MERC500

Closed-Loop
Integrated Solution
for Elevators

Integrated



Power Rating

- 3.7kW to 30kW,
Three-Phase
(3 - Ø) 380 to 480VAC
- 2.2kW and 3.7kW
Single-Phase
(1 - Ø) 220VAC - Only PMSM



MERC 500 SLIM



IoT
Compatible

MERC 500

Feature:

- **MERC 500** is a new-generation close loop integrated elevator controller independently developed and **Manufactured by ADCO CONTROLS India.**
- **Noiseless Operation:** Silent, closed-loop control panel.
- **Universal Communication:** Works with serial, semi-serial, and parallel systems.
- **Compact Design:** Wall-mountable and space-efficient.
- **IoT Integration:** Monitor and control via mobile app.
- **Built-in Keypad:** Eliminates external tools.
- **Broad Compatibility:** Supports geared (ACIM) and gearless (PMSM) machines.
- **Enhanced Safety & Comfort:** Smooth, secure ride experience.
- **Precise Control:** Velocity profile-based displacement calculation.
- **Fuzzy Logic Group Control:** Manages up to 8 elevators efficiently.
- **Emergency Backup:** 220 VAC input for seamless evacuation during power outages.

- **Quick Diagnostics:** 10 fault codes with encoder fault protection.
- **Advanced Door Control:** Auto re-levelling and self-rescue levelling.
- **Auto-Tuning:** Optimizes both synchronous and asynchronous machines.

Applications

- **Elevator Types:** Simplex, duplex, and group control (3–8 units) with AD-GCB.
- **Scenarios:** Commercial, passenger, and disabled-friendly elevators.
- **Speed:** Up to 1.75 m/sec.

Stop Support

- **Full Parallel:** 12 stops standard, 24 with extension.
- **Semi-Serial:** 24 stops standard, 40 with extension.
- **Serial:** Up to 40 stops with minimal cabling.