

AL54-MS Mortise Lock

Bring Access Control to Every Door



Overview

The AL54-MS Mortise Lock empowers organizations to upgrade traditional lock-and-key systems with a smart, connected solution. With access control across every door, organizations can centrally manage all doors and immediately trigger changes — like initiating lockdowns — with a single click via web or mobile.

Organizations can choose from three variations with different key cores: conventional, full-size interchangeable, and small format interchangeable.

All locks can be easily set up right within Verkada Command, requiring no additional software. Admins can receive proactive alerts about low battery status, lock or hub disconnection change in door state. Coupled with over-the-air firmware updates, these features help maximize uptime.

End users can enjoy a seamless unlock experience, using a variety of credentials — including hands-free Bluetooth intent unlock — to access doors, with clear LED feedback to confirm the door's status.

Key features

Local schedule override

Trigger immediate changes to a door's schedule — like unlocked to access controlled, and access controlled to locked down — with a simple button press directly on the lock.

Proactive alerts

Receive proactive alerts for system health issues like disconnected hubs or locks, and for security events, including when doors are held, forced open. All alerts are customizable by recipient, schedule, and channel.

Long-range wireless connection

Using Verkada's VLink protocol, immediately connect up to 16 locks with the WH32 wireless hub. The hub is wired to a Verkada access controller and can support any lock within a 150 feet radius or up to 2000 feet with a clear line of sight.

Built to last

With a ten-year warranty, UL's three-hour fire rating (pending) and ANSI Grade 1 certification (pending), the AL54-MS is a robust solution for a variety of doors and environments.

LF-, HF-, Bluetooth, and NFC support

Unlock doors with a wide array of credentials, from low-frequency proximity cards and high-frequency NFC credentials such as Apple Wallet. A built-in reflective sensor also supports Bluetooth Intent Unlock.

Intuitive interior and exterior LED feedback




Gain instant visual confirmation of a door's status — access granted, access denied, lockdown states, and connectivity status — on either side of the door based on the color and blinking pattern of the LED indicator.



AL54-MS

Tech Specs

Variations

AL54-MS-CC-01-26-HW		Mortise Lock, Conventional Core
AL54-MS-FC-01-26-HW		Mortise Lock, Full Size Interchangeable Core
AL54-MS-SC-01-26-HW		Mortise Lock, Small Format Interchangeable Core

General

Dimensions (with handle)	Exterior Assembly: 286.3 x 171.7 x 87.1 mm Interior Assembly: 323.8 x 172.4 x 88.0 mm	Dimensions (without handle)	Exterior Assembly: 286.3 x 82.3 x 35.2 mm Interior Assembly: 323.8 x 83.6 x 52.8 mm
Weight	6.8 kg	Operating Temperature	-35° to 55°C (-31° to 131°F)
Operating Humidity	5-90%	Ratings	IP65, IK08

Mechanical Compatibility

Door Thickness	1-5/8 to 2 inch	Backset	2-3/4 inch
Handing	Field Reversible	Door Position Indicator	Included in box, needs installation
Lever	Zinc Die Cast, Plated	Finish	Satin Chrome Plated
Strike Plate	Included in the box: -9110 with lip 1-15/16" x 4-7/8" -9112 1-1/4" x 4-7/8"	Latch Bolt Monitor	–
Mechanical Key Override Monitor	Built in	Deadbolt monitor	Built in
Compatible Cylinders and Keys	Schlage Conventional Core: 6 Pin Schlage FSIC: 6 Pin, 7 Pin SFIC: 6 Pin, 7 Pin Any key designed for one of the cores listed above is compatible		



AL54-MS

Tech Specs

Power

Power Supply	8xAA L91 lithium batteries (nominal voltage ≥ 1.5V)	Battery Life	12-18 months ¹
Backup Power	Provided via a USB-C cable connected to a 5V power bank	Voltage Range	5V to 7.2V
Maximum Current Requirement	1.8A (peak), 5.5 mA (average)		

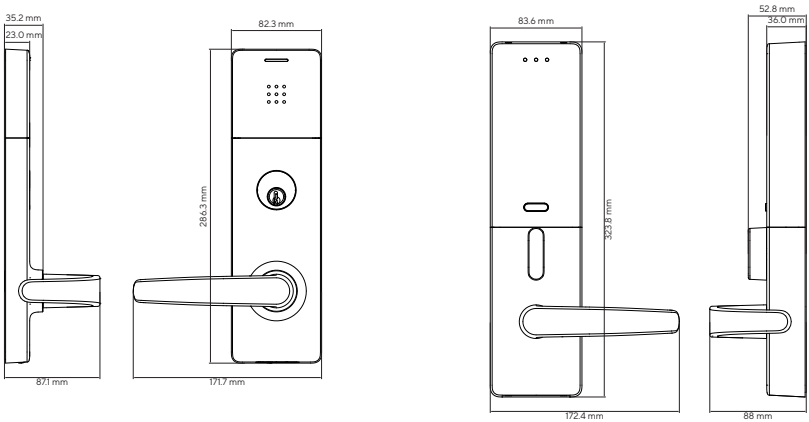
Connectivity & Communication

System Interface	Wireless communication via VLink protocol to Verkada wireless hub & access controller	Wireless Frequency Range	915.0 - 915.7 MHz
Wireless Communication Range	Up to 150 ft with obstructions Up to 2000 ft with clear line of sight	Audio-visual Communication	LED Feedback (Interior and Exterior), Buzzer Feedback

Credentials

Credential Technologies	Low Frequency (125 KHz) High Frequency (13.56 MHz) Mobile NFC (13.56MHz) Bluetooth Low Energy (2.4GHz)	Read Range	Low Frequency (125 KHz): up to 8cm High Frequency (13.56 MHz): up to 4cm Mobile NFC (13.56MHz): up to 4cm Bluetooth Low Energy (2.4GHz): up to 8cm
Credential Validation Time	<1 second		

Dimensions



Compliance & Availability

Compliance	FCC, IC, UL10C (pending), UL294 (pending), ULC60389-11-1 (pending), ANSI/BHMA A156.13 Grade 1 (pending), ANSI/BHMA A156.25 (pending)	Availability	USA, CAN
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1. Battery life depends on usage and has been calculated using the following assumptions: polling time of 10 seconds, 90 access events per day, and door open events on ingress and egress.



WH32
Tech Specs

Power and network

Power Consumption	0.18W standby, 27W maximum (5mA - 750mA current draw)	Power Input	Hub mode: 10-36V DC via RS485
Backup Battery (Internal)	1200 mAh 24 hours of backup with typical use		

General

Dimensions	Height: 5.5" (14.0 cm) Width: 5.5" (14.0 cm) Depth: 1.3" (3.4 cm)	Operating Temperature and Humidity	32 to 122° F (0 to 50° C) 0-90% RH non-condensing
Tamper Detection	Yes	Warranty	10 years
Certifications	FCC, IC, RCM, CE, UL/cUL/IEC 62368-1	Weight	1.3 lb (0.6 kg)

Installation

Included Accessories	Mount plate, T10 Security Torx screwdriver, 4x wall screws, 4x wall anchors	Mounting Options	Wall or ceiling mount
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Ordering Information

Wireless Lock pricing

Model Number	Description	Cost (MSRP) USD
AL54-MS-CC-01-26-HW	AL54 Mortise Lock, Conventional Core	\$1,799
AL54-MS-FC-01-26-HW	AL54 Mortise Lock, Full Size Interchangeable Core	\$1,799
AL54-MS-SC-01-26-HW	AL54 Mortise Lock, Small Format Interchangeable Core	\$1,799

License pricing (New/Capacity Increase)

Model Number	Description	Cost (MSRP) USD
LIC-AC-1Y-CAP	1-Year Door License, Capacity Increase	\$249
LIC-AC-3Y-CAP	3-Year Door License, Capacity Increase	\$599
LIC-AC-5Y-CAP	5-Year Door License, Capacity Increase	\$999
LIC-AC-10Y-CAP	10-Year Door License, Capacity Increase	\$1,999

License pricing (Renewal)

Model Number	Description	Cost (MSRP) USD
LIC-AC-1Y-RNW	1-Year Door License, Renewal	\$249
LIC-AC-3Y-RNW	3-Year Door License, Renewal	\$599
LIC-AC-5Y-RNW	5-Year Door License, Renewal	\$999
LIC-AC-10Y-RNW	10-Year Door License, Renewal	\$1,999