

**Wallbox MTR-UL-Enclosure**

# Wallbox Power Meter UL Enclosure Accessory User Manual

Model: MTR-UL-Enclosure

Brand: Wallbox

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Wallbox Power Meter UL Enclosure Accessory. This enclosure is designed to provide durable protection for your Wallbox Power Meter from various external conditions, ensuring its longevity and reliable performance.

The Wallbox Power Meter, when paired with a Pulsar Plus EV charger, enables precise control over your home's energy consumption, facilitating potential energy savings.



Figure 1.1: Front view of the Wallbox Power Meter UL Enclosure Accessory, showing the transparent face and Wallbox branding.

## 2. SETUP AND INSTALLATION

The Wallbox Power Meter UL Enclosure is designed for straightforward installation. All necessary hardware is included to facilitate the mounting of your power meter within the enclosure.

### 2.1. Package Contents

- Wallbox Power Meter UL Enclosure
- DIN rail (pre-installed or included for installation)
- Mounting hardware (screws, anchors, etc.)

### 2.2. Installation Steps

1. **Select Location:** Choose a suitable location for mounting the enclosure, considering environmental

factors and accessibility. The enclosure is designed for both indoor and outdoor use.

2. **Mount Enclosure:** Securely mount the enclosure to a wall or flat surface using the provided mounting hardware. Ensure it is level and stable.
3. **Install Power Meter:** Open the enclosure using the stainless steel hinges. Install your Wallbox Power Meter onto the integrated DIN rail.
4. **Connect Wiring:** Route necessary wiring for the power meter through the designated entry points. Ensure all connections are secure and comply with local electrical codes.
5. **Close and Secure:** Close the enclosure door and ensure it is properly latched. The design allows for anti-tampering measures (seal or lock not included).



Figure 2.1: The enclosure with its door open, revealing the internal DIN rail for power meter installation.



Figure 2.2: An example of the enclosure mounted on a wall in a typical installation environment.

### 3. OPERATING PRINCIPLES

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The UL Enclosure Accessory functions as a protective housing for the Wallbox Power Meter. It does not directly influence the operation of the power meter itself but ensures its safe and reliable functioning by shielding it from environmental elements.

Once the Wallbox Power Meter is installed within the enclosure and connected to your electrical system and a compatible Wallbox Pulsar Plus EV charger, it will begin monitoring your home's energy consumption. This data is crucial for enabling advanced energy management features, such as dynamic load balancing and solar energy integration, through the Wallbox ecosystem.



Figure 3.1: Conceptual diagram of the Wallbox Power Meter's role in managing home energy, including solar integration.

## 4. MAINTENANCE AND CARE

The Wallbox Power Meter UL Enclosure is constructed from durable polycarbonate and stainless steel, designed for minimal maintenance and maximum protection. Its robust construction ensures the longevity of your power meter.

### 4.1. Cleaning

- Wipe the exterior of the enclosure with a soft, damp cloth as needed to remove dust or dirt.
- Avoid using abrasive cleaners or solvents, as these may damage the polycarbonate material.

### 4.2. Inspection

- Periodically inspect the enclosure for any signs of physical damage, such as cracks or loose hinges.
- Ensure the door seal is intact to maintain its IP67 rating against dust and water ingress.

## 5. TROUBLESHOOTING

This section addresses common concerns related to the enclosure itself. For issues related to the Wallbox Power Meter's functionality, please refer to the power meter's specific user manual.

Problem	Possible Cause	Solution
Enclosure door does not close securely.	Obstruction in hinge or latch mechanism; damaged hinges.	Check for debris and clear. Inspect hinges for damage; if damaged, contact customer service.
Water or dust ingress observed inside enclosure.	Damaged or improperly seated seal; enclosure not closed properly.	Ensure door is fully closed and latched. Inspect the rubber seal around the door for damage or displacement.
Difficulty installing power meter on DIN rail.	Power meter not aligned correctly; debris on DIN rail.	Ensure power meter is correctly oriented and aligned with the DIN rail. Clear any debris from the rail.

For further assistance, please contact Wallbox customer service.

## 6. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	MTR-UL-Enclosure
Compatibility	Wallbox Power Meter
Certifications	UL Certified, Type 1, NEMA 4X, IP67
Material	Polycarbonate, Stainless Steel
Color	Light Gray (with transparent face)
Dimensions (L x W x H)	6 x 3.5 x 7.75 inches
Weight	1.25 Pounds
Manufacturing Location	Spain

## 7. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the official Wallbox warranty policy available on the Wallbox website or contact Wallbox customer service directly.

Wallbox provides US-based customer service for support and inquiries.

### Contact Information:

- Visit the official Wallbox website for support resources and contact details.

- Refer to your product packaging or Wallbox documentation for specific customer service phone numbers or email addresses.

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