MT11-HW Installation Guide

Overview

The Cisco Meraki MT11 is a cloud managed temperature sensor that is exceptionally simple to configure and deploy due to its integration with the Meraki dashboard and the use of BLE technology. The MT11 is designed to be deployed primarily in a cold storage environment alongside Meraki equipment enabling the end-user to receive alerts from the device specific to temperature.

About this Guide

This guide provides instructions on how to install and configure the MT11 environmental sensors.

Physical and Technical Specifications

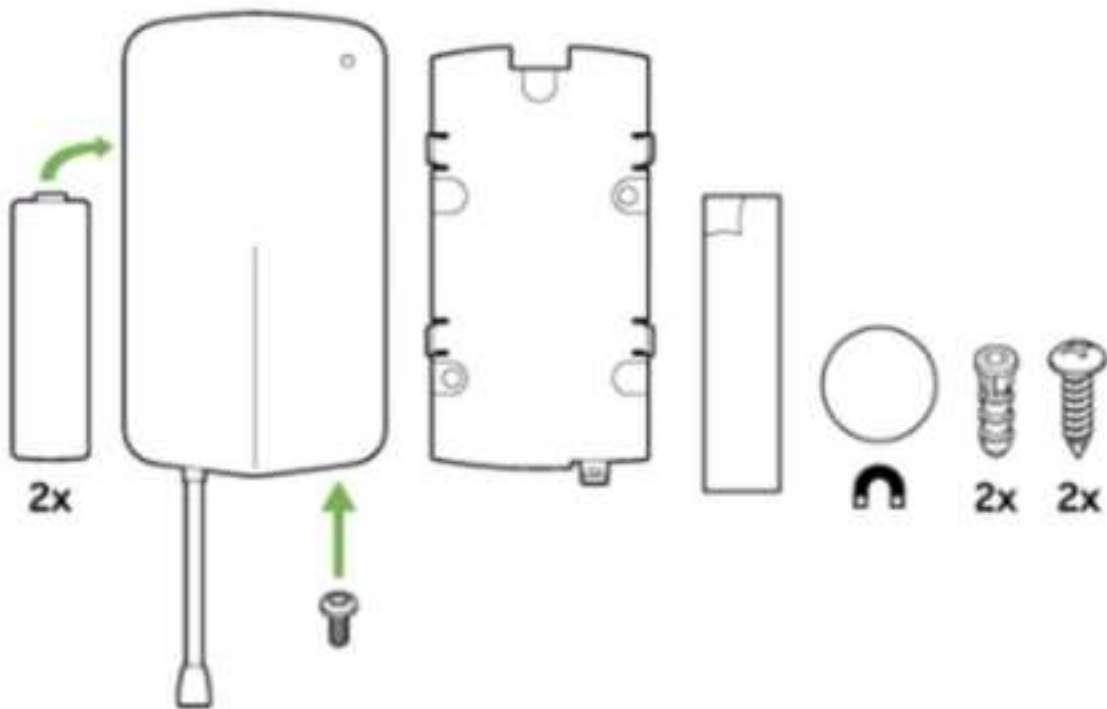**Dimensions:** 11.71x65.7x23.3mm (LxWxH)

Power Rating: 5Vdc

Operating Environment:

- Temperature: 0°C - 55°C (32F - 131F)
- Relative Humidity: 0-95% RH

Hardware:

- Multicolor, multifunction status LED
- General purpose button
- Reset Button
- USB-C port

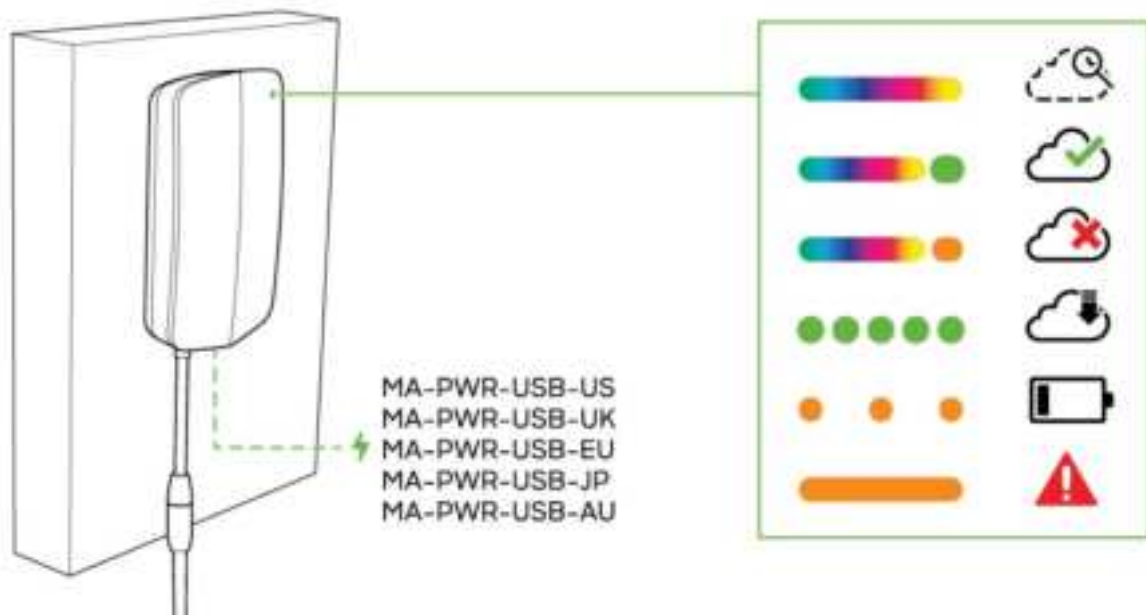## Package Contents and Wall Mount Hardware

Installation Instructions

Note: Each MT11 comes with an instruction insert within the box. This insert contains detailed step-by-step guides and images to assist in the physical installation of the camera.

Note: During first time setup, the MT11 will automatically update to the latest stable firmware. Some features may be unavailable until this automatic update is completed. This process may take up to 10 minutes due to enabling of whole disk encryption.
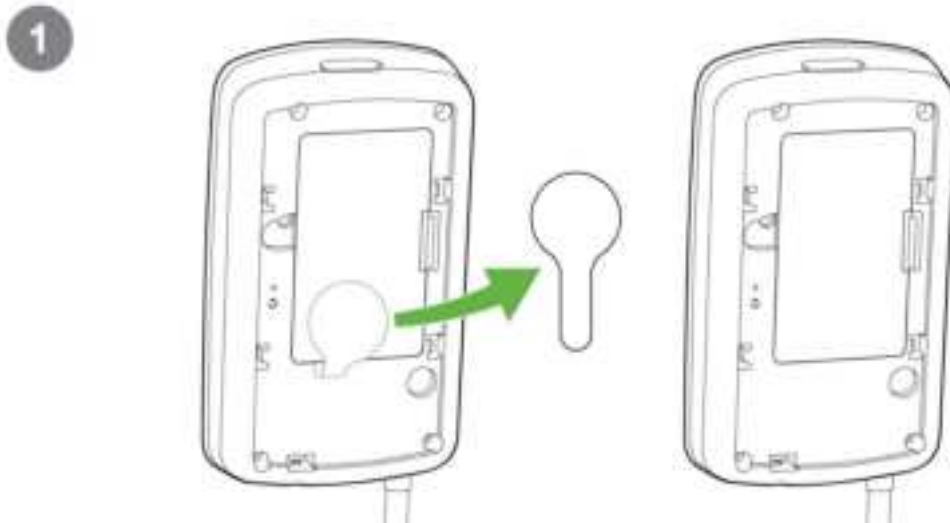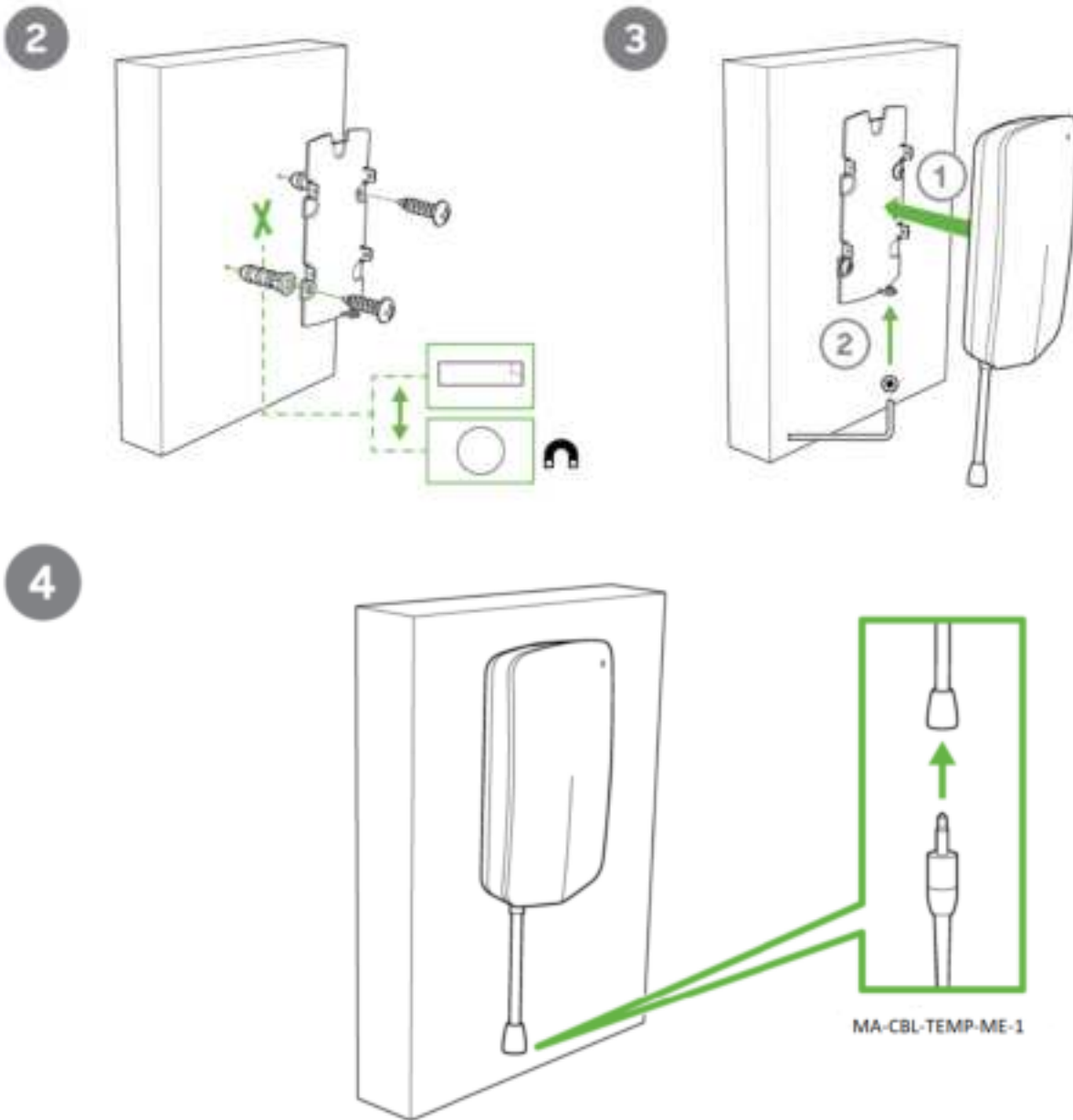
LED Indicator

- Rainbow – MT is initialing or looking for a gateway
- Solid Green (for "n" seconds) – Connected to a gateway
- Solid Amber (for "n" seconds) – MT could not find a gateway to connect
- Flashing Green – MT is upgrading its firmware
- Flashing Amber – MT is running on a low battery

To conserve battery life, the LEDs on the MT does not always remain "ON"

Wall Mount Hardware Setup

MA-CBL-TEMP-ME-1

Bluetooth 5.0

The MT11 features Bluetooth 5.0 which allows the device to perform over long distance with other Meraki networking devices to monitor the environment it will be used in.

Power Option

The MT11 is powered with two AA-batteries. The batteries are pre-installed and the user will only need to take out the pull tab. The expected battery life when used is estimated to be 5 years.

Pre-Install Preparation

You should complete the following steps before installing the MT11 in its final location.

- **Configure your MT11 in the Networking using Dashboard**

  The following is a brief overview only of the steps required to add a MT11 to your network. For detailed instructions about creating, configuring, and managing Meraki IoT networks, refer to the online documentation https://documentation.meraki.com/MT)

    1. Login to http://dashboard.meraki.com. If this is your first time, create a new account.
    2. Find the network to which you plan to add your MT11(s) or create a new network.
    3. Add your MT11(s) to your new network. You will need your Meraki order number (found on your invoice) or the serial number of each camera, which looks like Qxxx-xxxx-xxxx, and is found on the bottom of the unit.
    4. Verify that the sensor is now listed under **IoT> Monitor > IoT.**

- **Check and Configure Firewall Settings**

  If a firewall is in place, it must allow outgoing connections to particular ports using given IP address. The most current list of outbound ports and IP addresses for your particular organization can be found here.

- **DNS Configuration**

  Each MT11 will generate a unique domain name to allow for secured direct streaming functionality. The domain names resolve an A record for the private IP address of the camera. Any public recursive DNS server will resolve this domain.

  If utilizing an onsite DNS server, please whitelist *.devices.meraki.direct or configure a conditional forwarder at the local domains are not appended to *.devices.meraki.direct and that these domain requests are forwarded to Google public DNS.

- **Assigning IP Addresses**

  At this time, the MT11 does not support static IP assignment. MT11 units must be added to a subnet that uses DHCP and has available DHCP addresses to operate correctly.

Regulatory Statement

EU Radiation Exposure Statement

Installing or mounting of this device shall be done as such that a minimum separation distance (distance between a person and the device, or the device's antennas) of 20 cm is always ensured.

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

Any changes or modifications not expressly approved by Cisco Systems, Inc. could void the user's authority to operate this equipment. This Transmitter must not be co-located or operation in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance

20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Industry Canada Statement

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference
2. This device must accept any interference, including interference that may cause undesired operation of the device

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;

2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Industry Canada Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

***Déclaration d'exposition aux radiations*:**

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Taiwan Wireless Statements

低功率射頻設備的管理辦法

第12條 經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均 不得 擅自變更頻率、加大功率 變更原設計之特性及功能。

第14條 低功率射頻電機之使用不得影響飛航安全及干擾合 法通信;經發現有干 擾現象時,應立即停用,並改善至無干擾時方得繼續使用。

前項合法通信,指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫 療用電波輻射性電機 設備之干擾。

低功率射頻電機技術規範

4.7 無線資訊傳輸設備

4.7.6 無線資訊傳輸設備須忍受合法通信之干擾且不得 干擾合法通信;如造成干擾,應立即停用,俟無干擾之 處,始得 繼續使用。

4.7.7 無線資訊傳輸設備的製造廠商應確保頻率穩定性,如依製造廠商使用手冊上所述正常操作,發射的信號 應維持於操作帶中。

在5.25-5.35 秭赫頻帶內操作之無線資訊傳輸設備,限於室內使用。

電磁波曝露量MPE標準值1mW/cm^2,本產品使用時建議應距離人體20 cm。

Statement CS-0438 - 台灣 RoHS

台灣RoHS"限用物質含有情況標示聲明書"網址 www.cisco.com/go/taiwanrohs

Statement CS-0438 - Taiwan RoHS

Taiwan RoHS "Restricted Substances Content Disclosure Table" web address www.cisco.com/go/taiwanrohs