



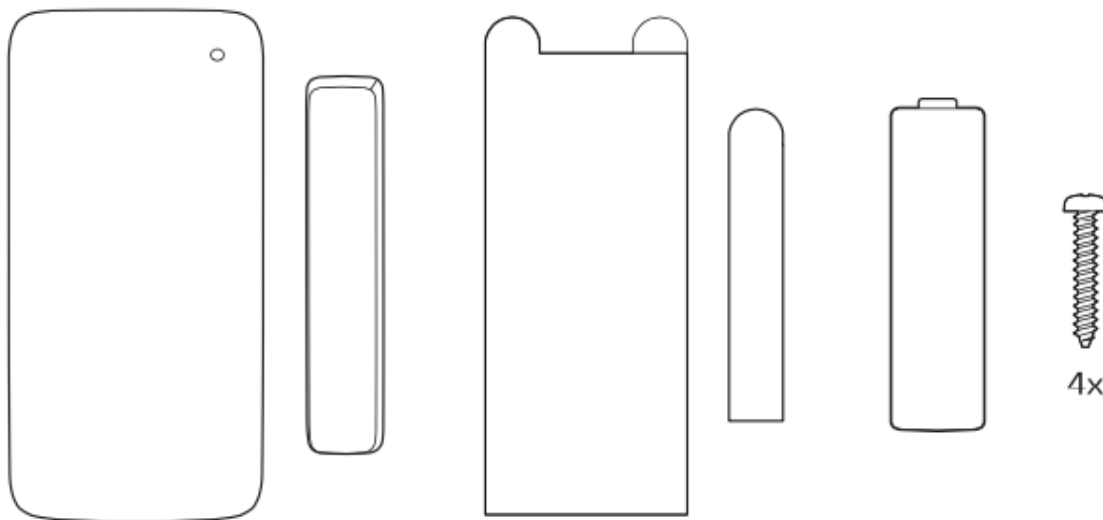
MT20-HW Installation Guide

MT20 Overview

The Cisco Meraki MT20 is wireless Bluetooth-enable sensor product. The MT20 is designed to be deployed primarily in a networking environment. It is designed to be used on doors alongside Meraki equipment enabling the end-user to receive alerts for when doors are open and closed.

Package Contents and Wall Mount Hardware

In addition to the MT20, the following are provided:



Installation Instructions

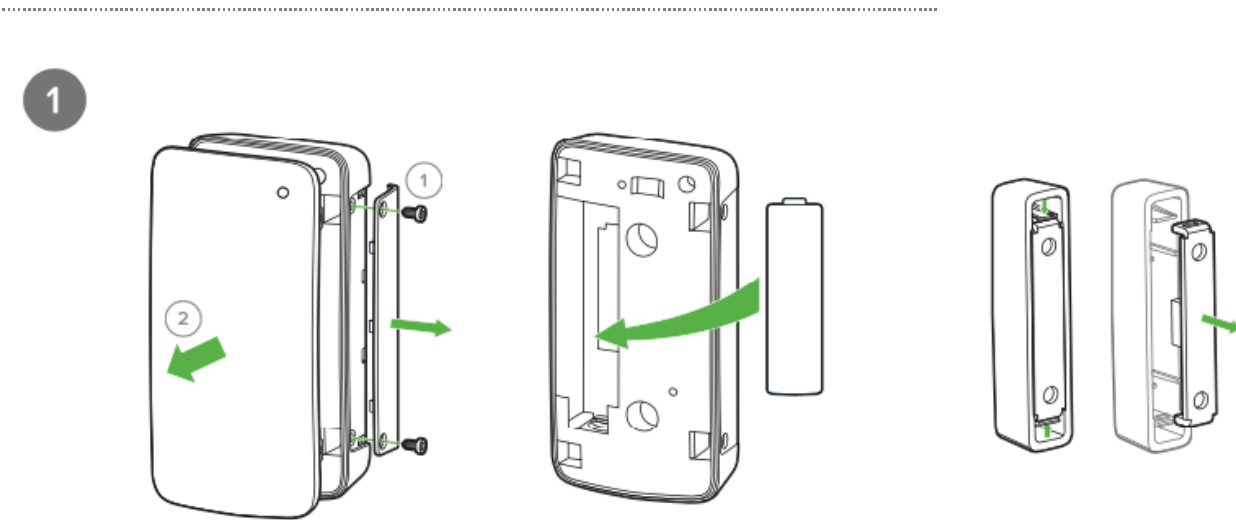
Note: Each MT20 comes with an instruction insert within the box. This insert contains detailed step-by-step guides and images to assist in the physical installation of the camera. A pdf can be found [here](#).
(Note—this is a draft hyperlink not active yet.)

Note: During first time setup, the MT20 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.

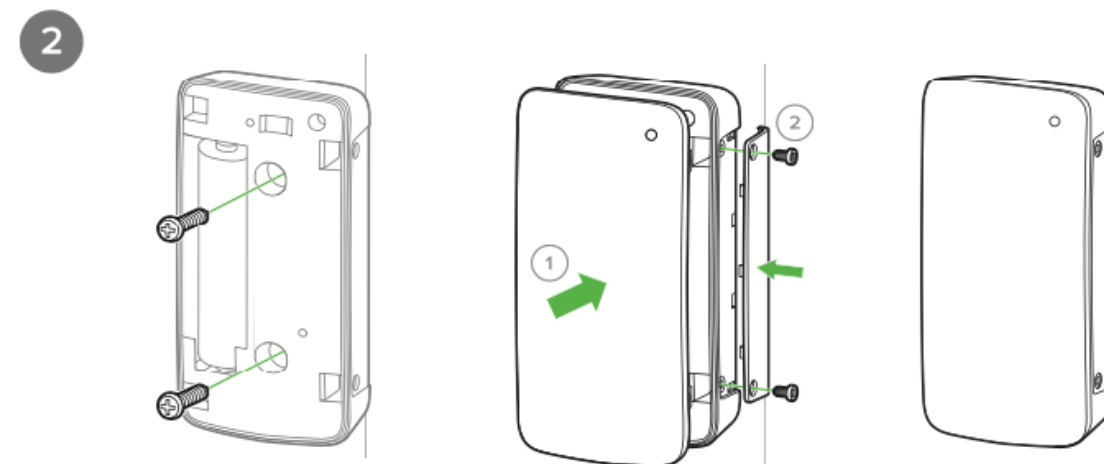
Battery Installation and Mounting Installation Steps

Please note—the MT20 is powered with one AA-battery. The expected battery life when used with this product is estimated to be 5 years.

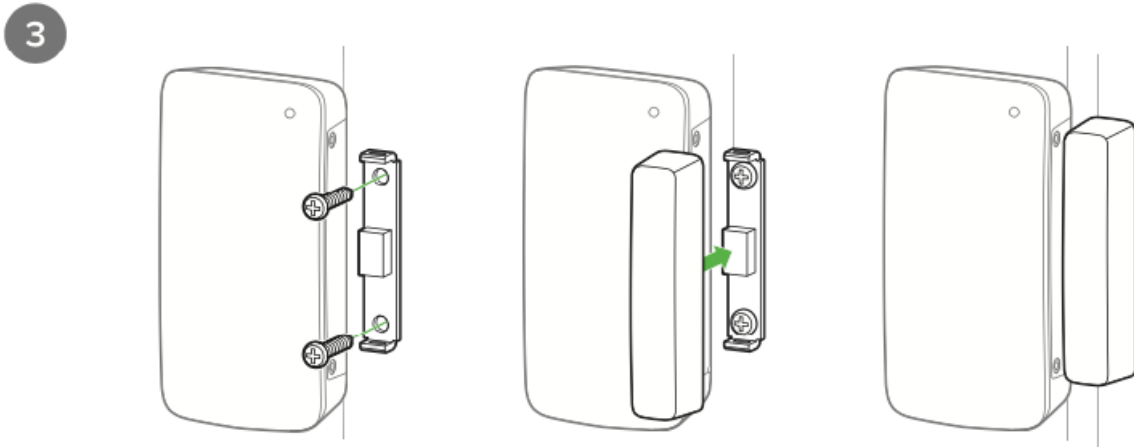
Step 1—remove side cover from the main sensor housing (1) and (2) remove device's top cover as shown below. Insert the one AA-Battery.



Step 2—using two of the mounting screws, screw in body of the MT20 into the upper-right side of the door. Once the MT20 is secure, snap on the cover.

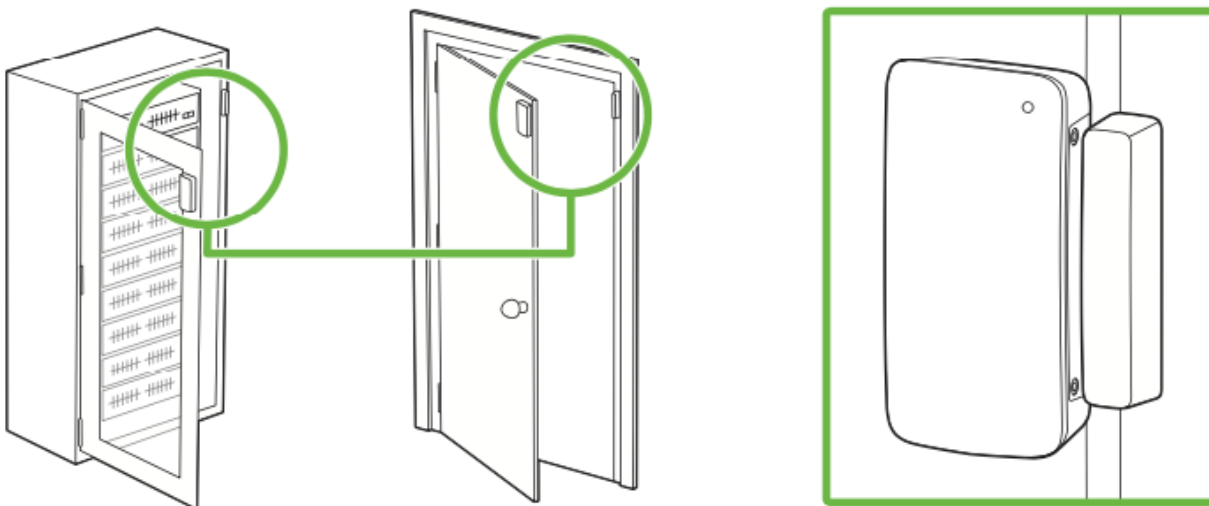


Step 3—Using the remaining two mounting screws, place the magnet housing on the upper-right side of the frame of the door and directly adjacent to the main MT20 body as shown below.



Examples of Placement Locations

Here are some examples of where the MT20 can be setup and placed in a networking environment.



Bluetooth 5.0

The MT20 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.

Configure your MT20 in the Networking using Dashboard

The following is a brief overview only of the steps required to add a MT20 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 MT20(s) or create a new network.
 3. Add your MT20(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 camera is now listed under **IoT> Monitor > IoT**.
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Check and Configure Firewall Settings

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

DNS Configuration

Each MT20 will generate a unique domain name to allow for secured direct streaming functionality. These domain names resolve an A record for the private IP address of the camera. Any public recursive DNS server will resolve this domain.

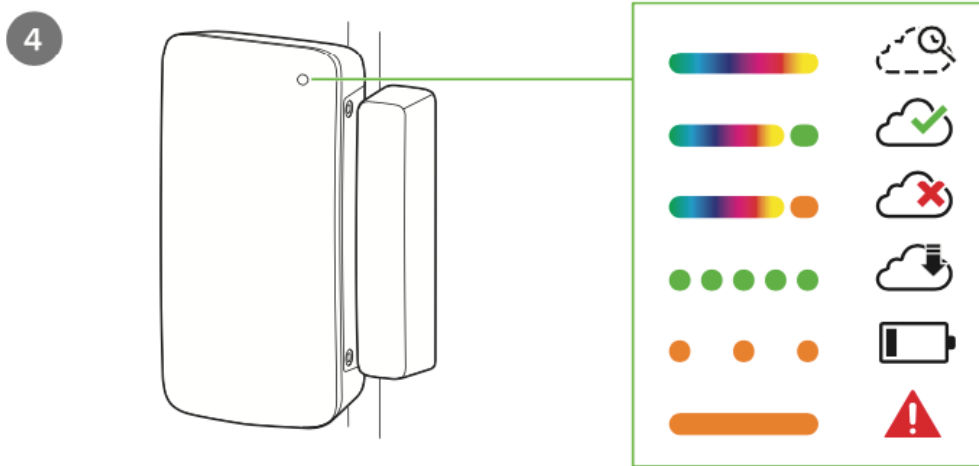
If utilizing an onsite DNS server, please whitelist *.devices.meraki.direct or configure a conditional forwarder so that the local domains are not appended to *.devices.meraki.direct and that these domain requests are forwarded to Google public DNS.

Assigning IP Addresses

At this time, the MT20 does not support static IP assignment. MT20 units must be added to a subnet that uses DHCP and has available DHCP addresses to operate correctly.

Login to Meraki Dashboard

Login to dashboard.meraki.com



Technical Specifications

Operational Temperature

-18°C to 55°C degrees

Dimensions:

Length: 4.61 inches

Width: 2.59 inches

Height: 1.03 inches

Power Rating:

5Vdc

Regulatory Statements

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.

D'éc_l_a_r_a_t_i_o_n_d'_e_x_p_o_s_i_t_i_o_n_a_u_x_r_a_d_i_a_t_i_o_n_s_:

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，俟無干擾之虞，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 兆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 $1\text{mW}/\text{cm}^2$ ，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

 docs.meraki.com/mt