PARADOX

DCT6M

In-Frame Magnetic Contact

INSTALLATION MANUAL

FW Version: V1.01.010

What's New

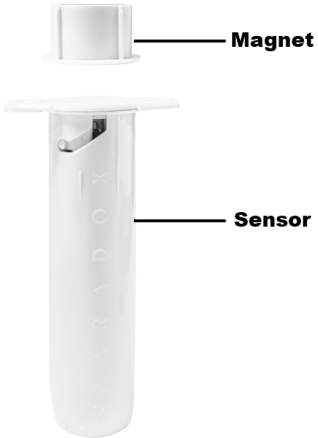
This firmware release of the DCT6M includes the following new features or enhancements:

Firmware Version	Release Date	What's new in this release
V1.01.010	28 October 2025	• Bug fixes/Improvements

Introduction

The DCT6M wireless magnetic contact is designed for in-frame installation on doors and windows. It reports wirelessly to an M system. It communicates using 2-way wireless featuring the latest Gaussian Frequency Shift Keying (GFSK) technology with frequency and encryption hopping, as well as transmission power management. This ensures superior wireless security and range, supervision, and reliability.

The DCT6M can be installed using screws or a press-fit method. With the included battery, the life expectancy in normal use is 6+ years.



Experienced Installers - Quick Installation

To install DCT6M:

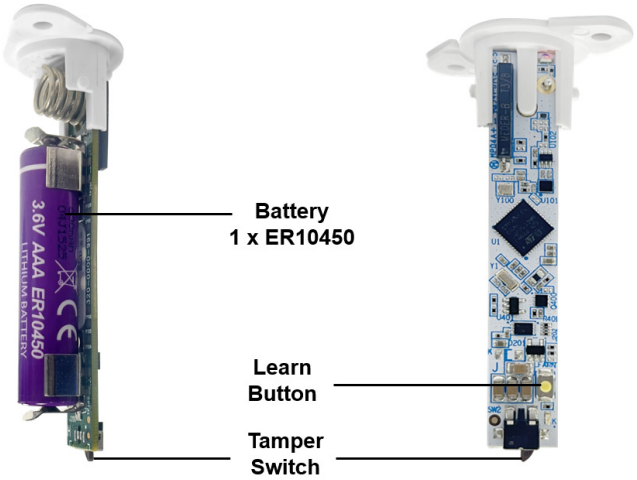
1. Open the top of the DCT6M sensor and remove the battery tab.
2. Install the body (sensor) - Drill a 1.9 cm x 7 cm deep (¾" x 2.75") hole. Secure it with two screws, if desired.
3. Install the magnet - Drill a 1.9 cm x 1.3 cm deep (¾" x ½") hole and install the magnet.
   NOTE: *Ensure the gap between the sensor and the magnet does not exceed 2.0 cm (0.8") when the door/window is closed.*
4. Pair DCT6M with the console (Using the BlueEye application):
   - Go to: **Hardware** > Tap **Add Devices** > **Wireless Devices Auto learn/Scan QR code or add devices manually** (by entering serial number).
     NOTE: *You can instantly pair DCT6M by pressing the **Learn** button or triggering the tamper.*

5. Configure DCT6M (Using the BlueEye application):
    - Go to: **Hardware** > Tap **DCT6M** from the device list > Enter the necessary details > **Save**.

NOTE: *The low battery voltage threshold of the DCT6M is 3.15V, and the battery is considered restored at 3.35V (on power-up only).*

Components of DCT6M

The following figure displays the components of DCT6M.



Components of DCT6M

Physical Mounting

NOTES: Installing the DCT6M in metal frames may interfere with wireless signals.
EN 50131-2-6 requires two tamper functions. One tamper is implemented in the design, while the other tamper function is covered by specific installation requirements. The certificate is valid if the DCT6M door contact is installed according to the following instructions.

To mount the DCT6M door contact:

1. Rotate the top cover with flanges counterclockwise and pull out the PCB board from the plastic housing.
2. Remove the battery tab from the battery holder.
3. Reinsert the PCB board into the plastic housing by rotating it clockwise.
4. Install the sensor on the door/frame.
    a. Drill a 1.9 cm x 7 cm deep (¾" x 2.75") hole.
    b. Add a paste glue to the lower side of the sensor and then insert the sensor.
    c. Secure the sensor using press-fit or screws (*see the images below*).

Press-fit

2 Screws

1 Screw

5. Install the magnet on the door/frame.
    a. Position the magnet so it aligns with the sensor when the door is closed.
    b. Drill a 1.9 cm x 1.3 cm deep (¾" x ½") hole in the door/frame and insert the magnet.
    c. Secure the magnet using a press-fit

NOTE: *The gap between the sensor and the magnet does not exceed 2.0 cm (0.8") when the door/window is closed.*

Pairing DCT6M with the Wireless M Console

The pairing and configuration settings of DCT6M are managed through the BlueEye application.

Prerequisites:

Ensure that:

1. The DCT6M is within the range of the console.
2. The BlueEye application is installed on your mobile and connected to the site.
3. The M console is powered on (Paradox logo color - white, red, or green).

Pairing DCT6M

To pair the DCT6M with the wireless console by an installer:

1. When in the **Hardware** tab, tap **Add Devices**, and then tap **Wireless Devices Auto learn**.
   The wireless console searches for new devices and a rotating radar icon is displayed. All unpaired devices pair within 6 minutes and appear at the top of the device list with a ***new*** tag and voice announcements.
   You can trigger the tamper or press the **Learn** button for immediate pairing.

To identify the device, you can either open or close the zone, or trigger the device tamper, and then check the device's screen in the BlueEye application to see the corresponding display.
When you trigger the device tamper, a **T** symbol appears on the device name in the BlueEye application.

Pairing Previously Used Devices

You can pair previously used devices under the following conditions:

- **When the previously used device is not online with another wireless console:** Start auto-learn. Open the device or press the **Learn** button momentarily for immediate pairing, or wait up to 6 minutes for automatic pairing.

- **When the previously used device is online with another wireless console:** Press and hold the **Learn** button for 8 seconds to reset the device to its default settings. Once the reset is complete, initiate auto-learn. **NOTE:** *Ensure the device is not connected or paired with the previous console before resetting the device.*

Configuring DCT6M

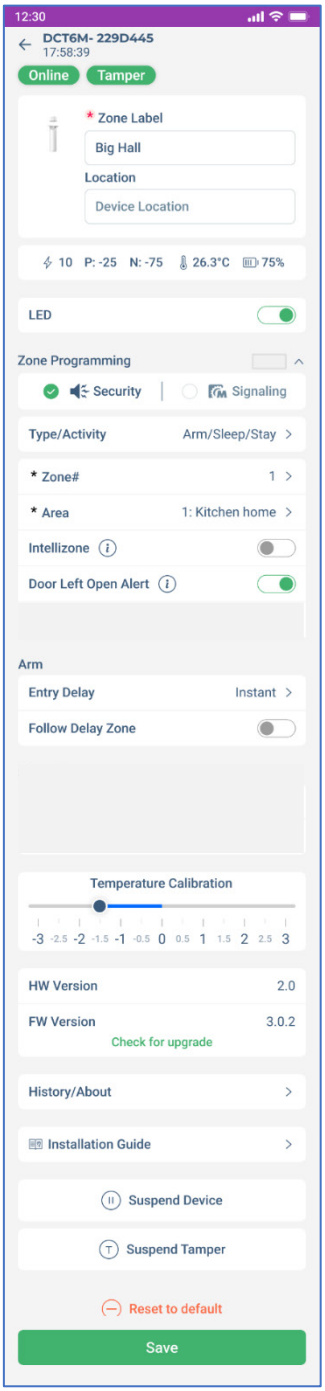
To configure the DCT6M settings:

1. When in the **Hardware** tab, tap **DCT6M** from the device list.
2. On the page that opens, enter the necessary details for the parameters and then tap **Save**.
   For details about each parameter displayed on the page, see Table 1.

The following table lists the parameters displayed for configuring the DCT6M, along with their descriptions.

Table 1

Parameter		Description
Zone Label		Enter a name for the zone.
Zone Programming	**Security**	Configures the zone as a security input.
	Signaling	Any system input (from 200 selectable) can be assigned as a signaling input for home automation and PGM activation without being configured as a security zone. Inputs may be signaling-only or signaling plus a security zone. Signaling inputs appear in orange and signaling zones in green.
	Zone # and **Area**	Assign a zone and area number.
	Type/Activity	Select the type of zone. The following are the different zone types: • Arm • Arm/Sleep • Arm/Stay • Arm/Sleep/Stay • **24 hours** – Always armed. The system remains in alarm as long as this zone is open. The system can be armed even if the 24-hour zone is in alarm.
	Follow Delay Zone	This zone is instant and becomes a delay zone if a delay zone is opened first.
	Entry Delay	When this option is enabled, opening a zone triggers an entry delay in any arming mode. • **Instant** – When in any armed status, an immediate alarm occurs. However, a delay period can be added to the **Instant** zone when arming in the Stay and Sleep modes. • 5 sec • 10 sec • 15 sec • 30 sec • 45 sec • 1 minute • 1.5 minute You can select the delay duration from the available options.
	Intellizone	When the **Intellizone** option is enabled for a device, the system will trigger an alarm under one of the following conditions, within the configured Intellizone Timer window (default: 30 seconds): • **Two separate openings** are detected within the timer period.



		• A **trigger from an Intellizone**, followed by a **trigger from any other zone** within the timer period. • The **same zone remains open** throughout the timer period. Intellizone is not available for any 24H zones.
	Door Left Open Alert	When enabled, it generates a notification when a door remains open beyond a predefined time.
Temperature Calibration		Allows manual calibration of the device's reported temperature to match the actual ambient temperature.
History/About		This tab displays details such as the installation date, production date, last programming date, battery replacements, battery history, and upgrade history.
Suspend Device		Disables monitoring of the device in the system.
Suspend Tamper		Disables tamper monitoring for the device.
Reset to Default		This will reset the device to the factory default settings. **NOTE**: *Only an installer can reset the device.*
Delete device		This option deletes the device from the system completely. After deletion, the system generates a push notification only if the owner registration is complete, not during installation. **NOTE**: *Only an installer can delete the device.*

Resetting

Press and hold the **Learn** button for 8 seconds to reset the device to its default settings.
NOTE: *If the device is already paired and online, delete the device first, then perform the reset on the device, and pair it again. Otherwise, the reset will have no effect.*

LED Indications

After configuring DCT6M, the door contact displays various LED indications based on specific events.
The following table lists the LED indications and their corresponding event.
NOTE: *The LED indications are visible only when viewed directly on the PCB.*

Table 2

LED Indication	Event
Red	Not connected to the wireless console
Green	Magnet attached; zone closed
Yellow	Magnet detached; zone open
Red/Green	Tamper alarm activation

NOTE: *If the LED indicator shows a red light when opening or closing a zone, it indicates that DCT6M is either not paired with any head unit, or lost connection with the unit.*

Upgrading Firmware

To upgrade the firmware:

1. In the **Hardware** tab, tap on the device > **Check for Upgrade**.
2. If an upgrade is available, tap **Upgrade** when prompted.
   The process may take a few minutes. Keep track of the progress in the BlueEye application to ensure that the upgrade is completed successfully. Both the Installers and owners can perform the upgrade.

IMPORTANT: The firmware upgrade can be done only when the system is disarmed.

Signal Strength and Transmit Power Monitoring

The BlueEye application provides insights into each device's received signal strength and transmission power to optimize performance.

To view the RSSI and transmit power range:

1. When in the **Hardware** tab, tap the ⓘ icon next to the **Wireless** tab.
   A pop-up window with the RSSI and transmit power range is displayed.
2. Maximum power transmitted by DCT6M:
   - 868 MHz: +14 dBm
   - 914 MHz: +22 dBm

Tap on any listed device to view signal strength and additional device metrics. The following parameters are displayed for each device:

- **P** - Received signal strength at the panel
- **N** - Received signal strength at the device
- - Transmit power of the device.
- - Current temperature reading of the device.
- - Battery level of the device

A higher P and N value indicates stronger and clearer communication between the console and the device.

- If **P** is low, the console struggles to receive signals from the device.

- If **N** is low, the device struggles to receive signals from the console.

NOTE: *Values below -93 with maximum Tx power are not recommended values, and RPT5M can be used to extend the range.*

Power transmission impacts only **P**:

- When **power transmission** increases, the **P** value at the console generally improves, as a stronger signal is sent.
- If **P** value is good, the device can reduce its transmission power to save battery life.

IMPORTANT: All nodes adjust their transmission power to save battery life. The adjustment depends on the surrounding noise level and is updated at intervals set by the supervision timer or during a node status update.

Cover Tamper Protection

The DCT6M door contact is equipped with cover tamper protection. If the system is armed, any tamper activation immediately triggers a system alarm.

Technical Specifications

The following table lists the technical specifications of DCT6M along with their descriptions.

NOTE: *The specifications are subject to change without prior notice.*

Table 3

Specification	Description
Wireless Type	GFSK two-way with frequency and encryption hopping
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz May vary by region
RF Power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Close Distance of the Magnet	2.0 cm (0.8")
Open Distance of the Magnet	2.3 cm (0.9")
Transmission Time	Less than 20 ms
Supervision Time	20 minutes
Status Indicators	Battery, temperature, TX/RX values
Battery	1 x AAA ER10450 lithium only, 6+ years of battery life with normal usage
Installation Environment	Indoor
Firmware Upgrade	Remotely over the air, via BlueEye
Operating Temperature	-30°C to 50°C (-22°F to 122°F)
Auto Learn	Yes
Colors	White
Dimensions	2.1W x 7.3H x 2.1D cm (0.8" W x 2.8" H x 0.8" D)
Weight	Sensor 20 g, Magnet 10 g
Certification	CE, EN 50131-2-6, EN 50131-6 EN 50131-5-3, FCC 15.247, Security Grade – 2, Environmental Class - II

FCC Statements

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

NOTE: 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 try to correct the interference by one or more of the following measures:

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

WARNING – RF EXPOSURE COMPLIANCE: This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

FCC ID: KDYDCT6M
IC: 2438A-DCT6M

- This Class B digital apparatus complies with Canadian ICES-003.
- -Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

IC Statements

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.

AVERTISSEMENT – CONFORMITÉ AUX NORMES D'EXPOSITION AUX RF: Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

Warranty

For complete warranty information on this product, see the Limited Warranty Statement document, or contact your local Paradox distributor.

Patents

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