Manuals+ — User Manuals Simplified.

PARADOX TM70, TM50 Touchscreen Keypads Installation Guide

Contents

PARADOX TM70, TM50 Touchscreen Keypads

Technical Specifications

TM70

- Power Input: 9 to 15 VDC
- Consumption: 250mA at max brightness, 80mA sounder
- Wire Connection: 18 Gauge recommended
- Display: 7″ 800 x 480
- Dimensions: 17.7 x 11.4 x 1.5 cm (7 x 4.5 x 0.6 in.)
- Humidity: 5-90%
- Indoor Temp.: Yes
- SD Card: 4GB; 2GB free
- Input: Zone, Tamper
- Compatibility: Swan, EVO, Spectra, Magellan
- Remote Upgrade: Swan only
- Jpeg Download: Swan via Bus, EVO/Spectra SD Card
- Auto Dim: Yes
- Chime: Yes

TM50

- Power Input: 9 to 15 VDC
- Consumption: 150mA at max brightness, 80mA sounder
- Wire Connection: 18 Gauge recommended, 22 Gauge
- Display: 5″ 480 x 272
- Dimensions: 14.2 x 9.5 x 1.4 cm (5.6 x 3.75 x 0.56 in.)
- Humidity: 5-90%
- Indoor Temp.: Yes
- SD Card: 4GB; 2GB free
- Input: Zone, Tamper
- Compatibility: Swan, EVO, Spectra, Magellan
- Remote Upgrade: Swan only
- Jpeg Download: Swan via Bus, EVO/Spectra SD Card
- Auto Dim: Yes
- Chime: Yes

Product Usage Instructions

Installation

1. Separate the top assembly from the back plate by inserting a flathead screwdriver into the tab as shown.
2. Mount the back plate to the wall or gang box using appropriate screws, ensuring that the UP arrow on the back plate is in the up position.
3. Properly install and lock the SD card with text facing backward to the wall/connections facing the front.
4. Secure the wire plug to the PCB socket following the color code to match the Paradox keypad bus code. The blue wire is for keypad zone input.
5. If needed, attach the SD card cover and then attach the top to the back by hooking the top hooks first and locking the bottom as per instructions.

6. Power up the bus and verify that the voltage is higher than 11.5V as displayed on the main screen and boot sequence screen.

Installation

WIRING: For the TM70 it is recommended to use 18 gauge wire unless wire feed one keypad and distance is less than 100ft./30m.
TM50 we recommend 18 gauge as well, however, 22 gauge can be used up to 150ft. The feeding wire (bus) should not have more than 1.0V drop, each TM70 rep-resents 0.3A max current, and TM50 150mA, wire resistance calculator can be found on the web.

Resistance per: 100ft 22 gauge wire = 1.6 Ohm, 18 gauge 0.64 Ohm.
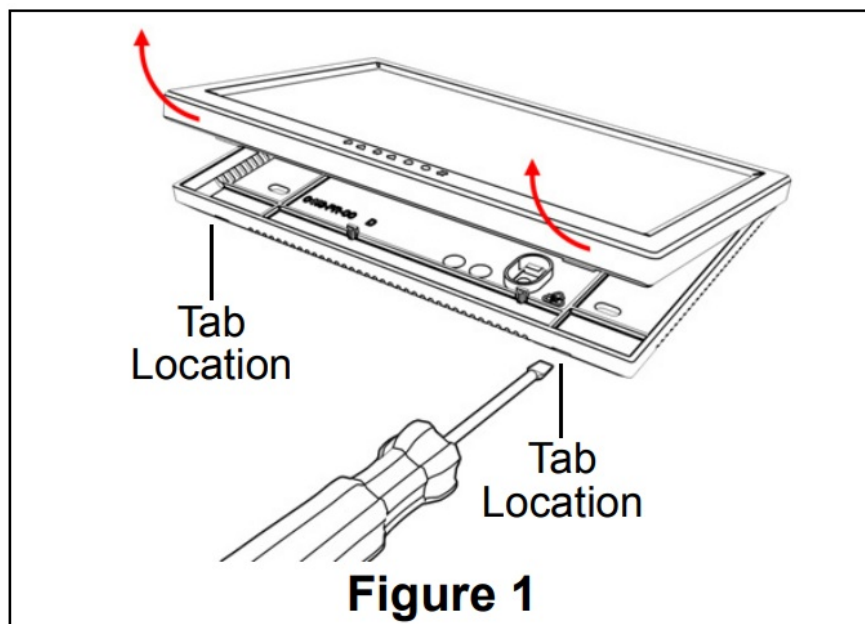
Voltage drop formula

$V = 2R \times 0.3N$ (TM70), $V = 2R \times 0.15N$ (TM50)
R = Wire resistance,
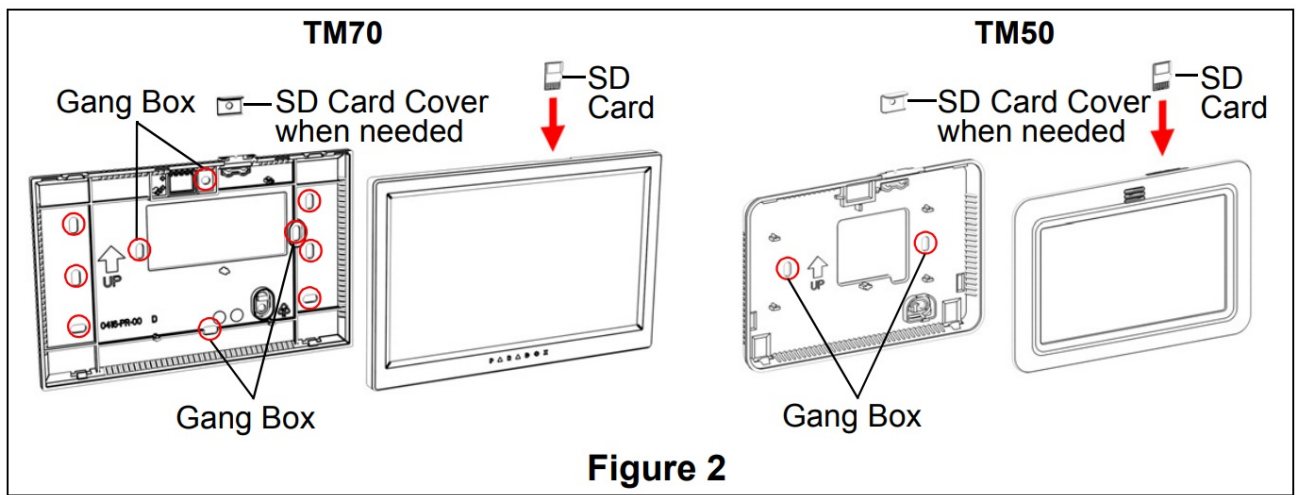N= Number of TM70s fed by the wire, use lower gauge wire if necessary.

1. Separate the top assembly from the back plate. Insert a flathead screw-driver into the tab located, as shown in Figure 1.

Figure 1

2. Mount the back plate to the wall or to a gang box using appropriate screws. Ensure that the UP arrow on the back plate is in the up position.
   Note: We recommend feeding the TM70 with 18 gauge wire.
3. Make sure the SD card is installed properly and locked with text facing backward to the wall/connections facing to the front, as shown in Figure 2.

Figure 2

4. Secure the wire plug to the PCB socket the wires as per the color code to match the Paradox keypad bus code. The blue wire is keypad zone input.

5. Attach the SD card cover if needed, then attach top to back top hooks first then lock the bottom as per Figure 1. The SD card can be removed if necessary with a flat screw from the top if the metal cover is not attached or by opening the keypad for loading pictures.

6. Power up the bus and verify that the voltage is higher than 11.5V (displayed at the bottom right of the main screen as well as the boot sequence screen).

Technical Specifications

	TM70	**TM50**
Power Input	9 to 15 VDC	
Consumption	250mA at max brightness + 80mA sounder	150mA at max brightness + 80mA sounder
Wire Connection	18 Gauge	18 Gauge recommended, 22 Gauge
Display	7" 800 x 480	5" 480 x 272
Dimensions	17.7 x 11.4 x 1.5 cm (7 x 4.5 x 0.6 in.)	14.2 x 9.5 x 1.4 cm (5.6 x 3.75 x 0.56 in.)
Humidity	5-90%	
Indoor Temp.	Yes	
SD Card	4GB; 2GB free	
Input	Zone	
Tamper	Built-in, Cover and Wall	
Compatibility	Swan, EVO, Spectra, Magellan	
Remote Upgrade	Swan only	
Jpeg Download	Swan via Bus, EVO/Spectra SD Card	
Auto Dim	Yes	
Chime	Yes	

Warranty: For complete warranty information on this product, please refer to **www.paradox.com/terms**. Specifications may change without prior notice.
PARADOX.COM
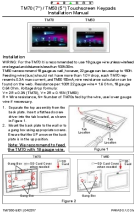
Frequently Asked Questions

Q: What should I do if the SD card cover is not attached properly?

A: If the SD card cover is not attaching properly, ensure that the SD card is properly installed and locked in place before attempting to attach the cover. Make sure the text on the SD card is facing backward to the wall and connections are facing towards the front.

Q: Can I remove the SD card without detaching the metal cover?

A: Yes, you can remove the SD card without detaching the metal cover by using a flat screw from the top of the device. Alternatively, you can also open the keypad to access and remove the SD card for loading pictures.

Documents / Resources

PARADOX TM70, TM50 Touchscreen Keypads [pdf] Installation Guide
TM70, TM50, TM70 TM50 Touchscreen Keypads, TM70 TM50, Touchscreen Keypads, Keypads

References

- **User Manual**