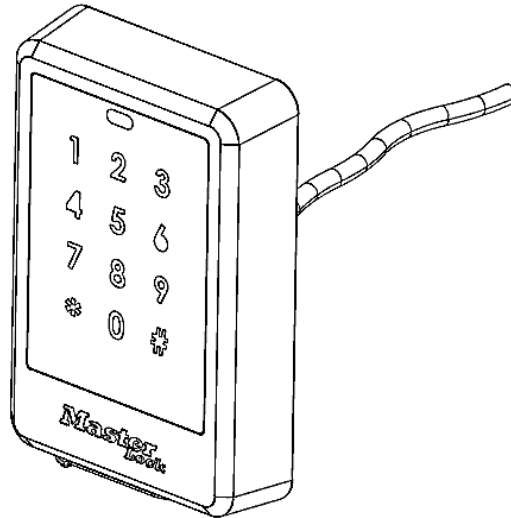


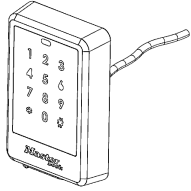
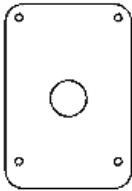


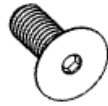


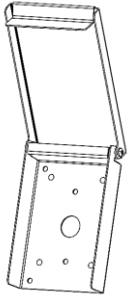
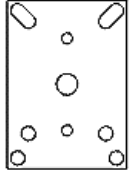


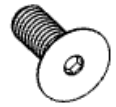
27213 Keypad and 27211 Weather Cover Kit Guide

Rev A



27213 Package Contents

Qty 1	 27213 Master Lock Bluetooth Keypad	Qty 1	 Keypad Gasket	Qty 4	 #10-32 x 1/2 Flat Head Screws
		Qty 2	 Grommets	Qty 4	 #10-32 x 1/2 Hex Screw SS

Qty 1	 27211 Weather Cover (Optional Accessory)	Qty 1	 27211 Weather Cover Gasket	Qty 4	 #10-24 Nutserts
		Qty 4	 #10-24 X 1/2 Long Button Head Screws	Qty 4	 10-32 x 1/2 Flat Head Screws

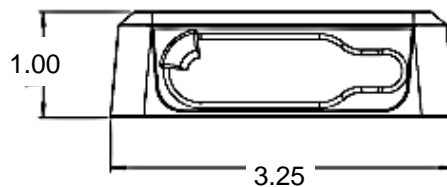
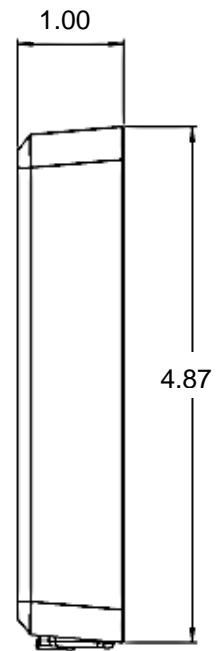
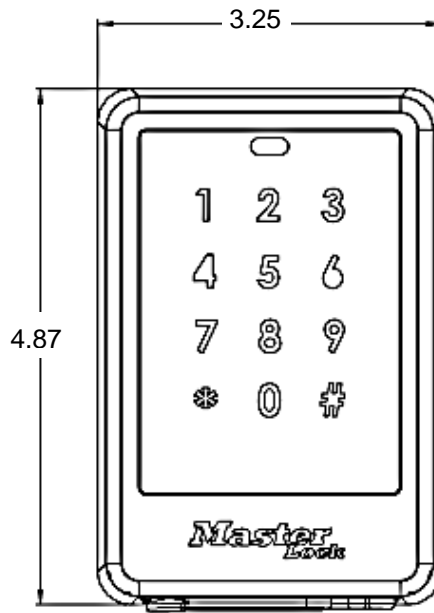
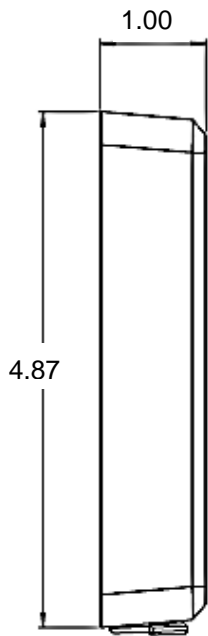
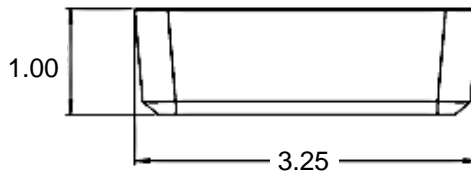


Specifications

Mechanical	
Shipping Weight	2 lbs
Dimensions	3 1/2" W x 4 7/8"H x 1"D
Electrical	
Power Consumption	60 mA @ 3 VDC typical 350 mA peak
Cable Requirements	4 twisted pair-wire, 22 AWG Min., 50ft max

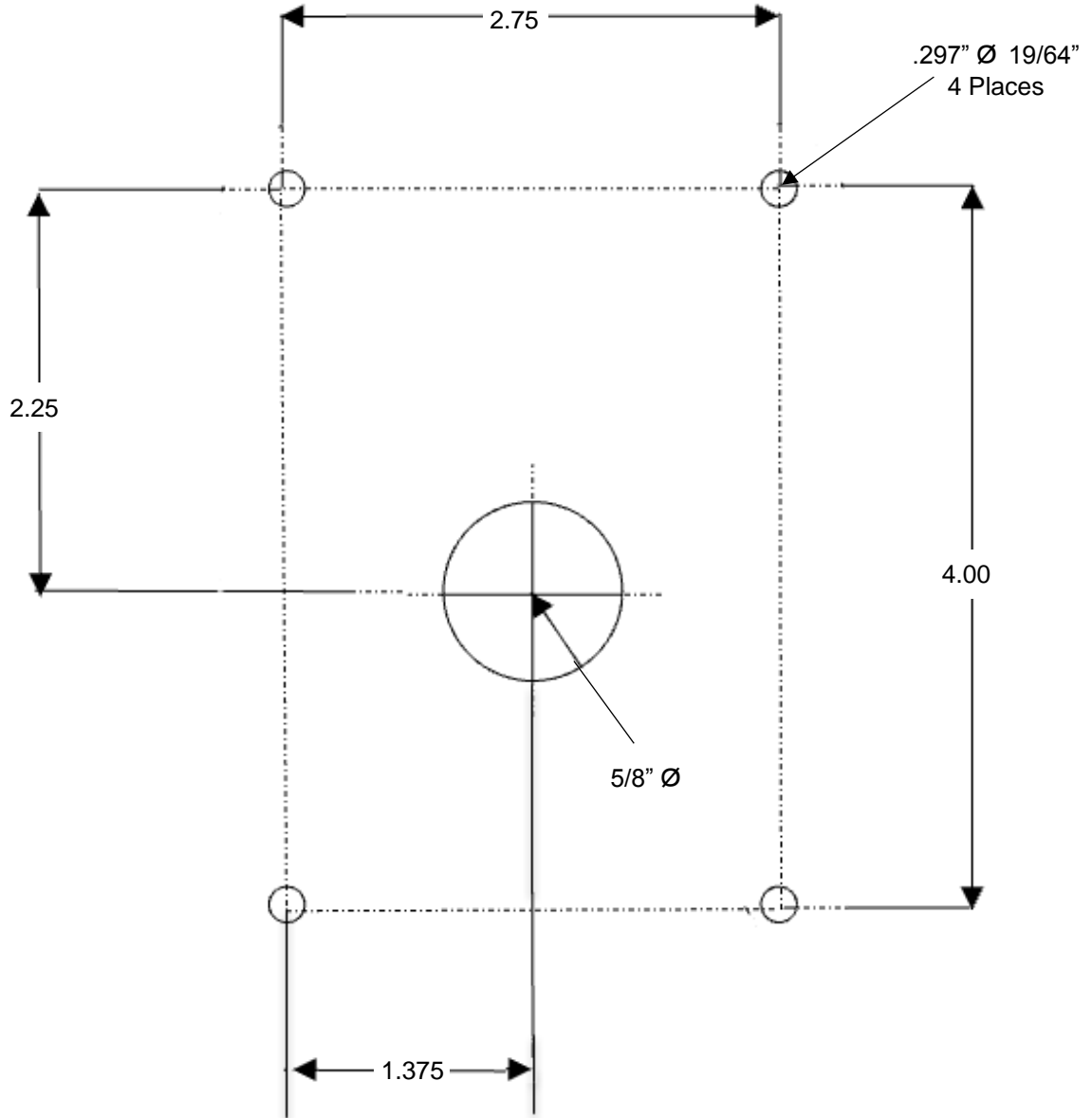
Environmental	
Operating Temperature	-40°F to 158°F
Humidity	Up to 95% RH
Regulatory	
FCC Class:	47 CFR, Part 15, Sub Part C
NEBS	Tested to select subsections of GR-487

Keypad Dimensions (Inches)

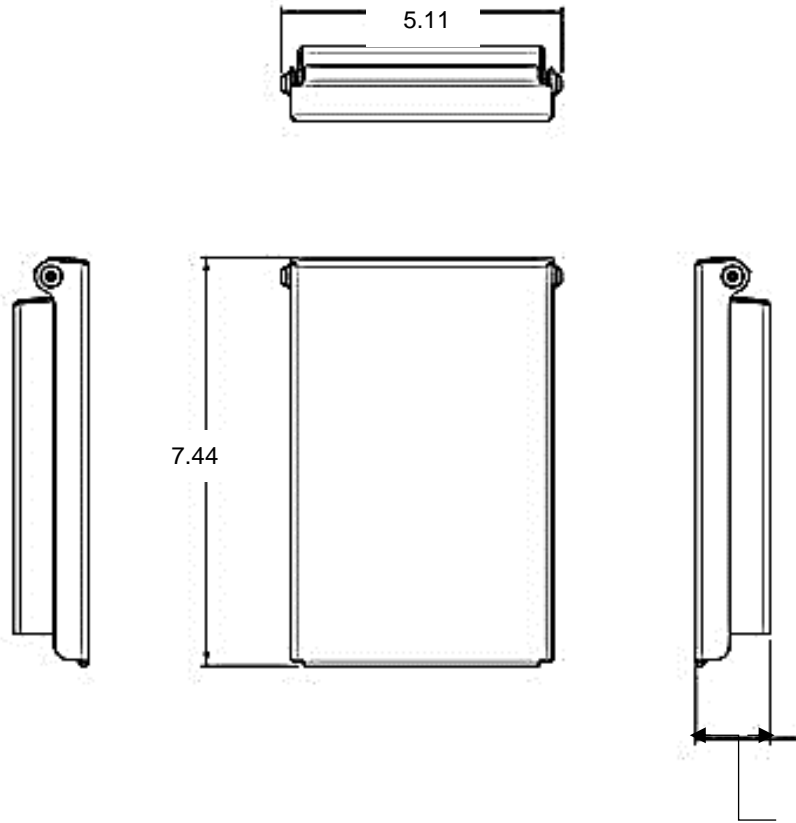


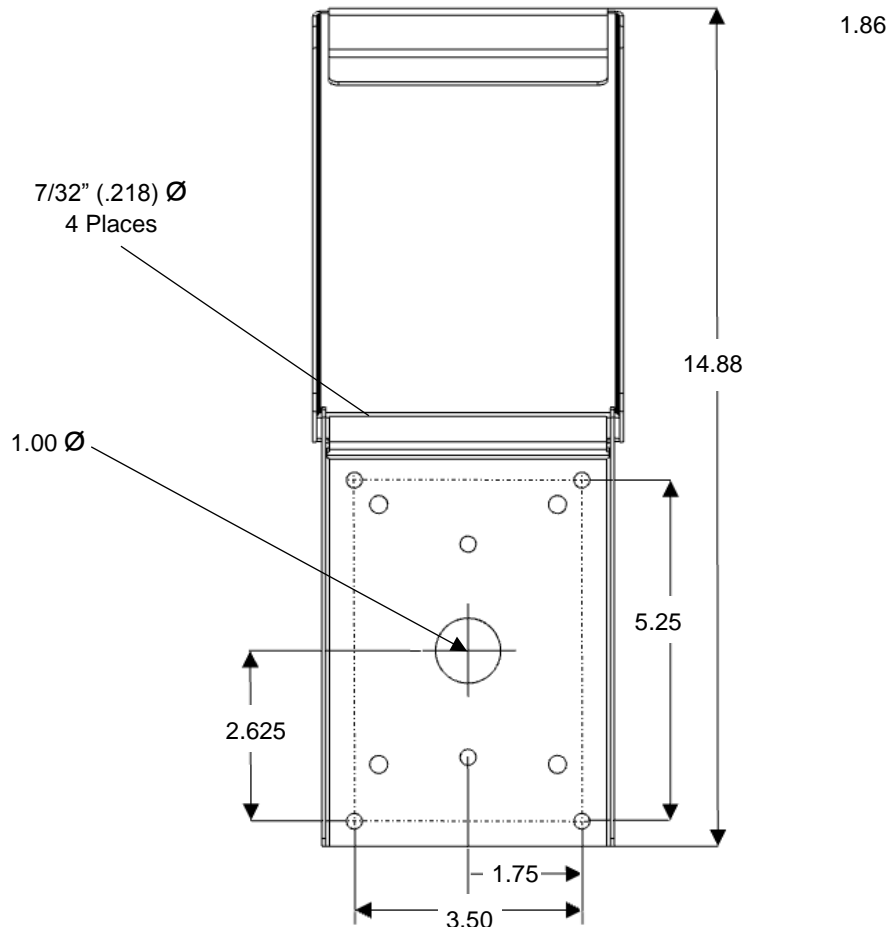


Keypad Mounting Hole Pattern Dimensions (Inches)



Weather Cover Dimensions (Inches)





Tools & Materials

- | | |
|-----------------------------------|-------------------------------|
| Safety Glasses | 7/32" (.218") Drill Bit |
| Hearing Protection | 19/64" (.297") Drill Bit |
| Gloves or Similar Hand Protection | Cordless Drill (1/2") |
| Tape Measure (1/16" graduations) | Step Drill Bit |
| Pencil | Nutsert Install Tool and Bits |
| ESD Approved Vacuum | #10-24 Tap |
| Automatic Center Punch | #10 Flat head Screw Driver |
| | #10 Hex Driver |

The **Tools** list and provided hardware is suitable for use with installations on metal surfaces. Different tools and hardware (not provided) may be required for proper installation on other mounting surfaces. To ensure proper mounting, use hardware type and sizes that are suitable for your specific installation.

Product Notice:

This product is not intended or rated for use in life-critical control applications. Please verify requirements for your specific installation by consulting electrical code and other local regulations and obtain approvals in writing.

FCC: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio



communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning: Any modification without the express written consent of The Master Lock Company LLC could void your authority to operate this product and invalidate the product warranty.

Model 27213 Bluetooth Keypad

The 27213 Bluetooth Keypad is an access control keypad reader that is part of the Master Lock Bluetooth family of products. The Keypad works with the 27219 and 27220 Door Controllers to provide entry at shelters, cabinets and others equipped with Master Lock's high-security electromechanical locks. Devices are managed within the Master Lock Vault Enterprise Access Control System (ACS) and use credentials issued by (ACS,) including Temporary Access Codes (TACs) for manually entered or mobile credentials from the Master Lock Vault Enterprise Bluetooth mobile app.

These elements of the system function together to provide convenient and simple access control and management without requiring a real-time network connection with the ACS Host.

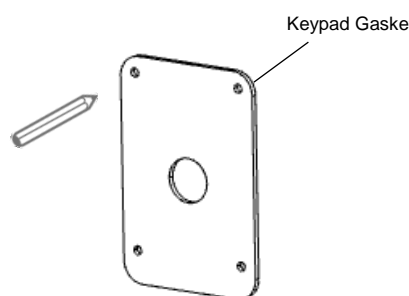
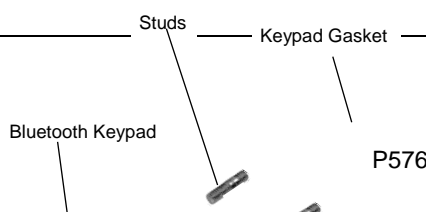
General Capabilities

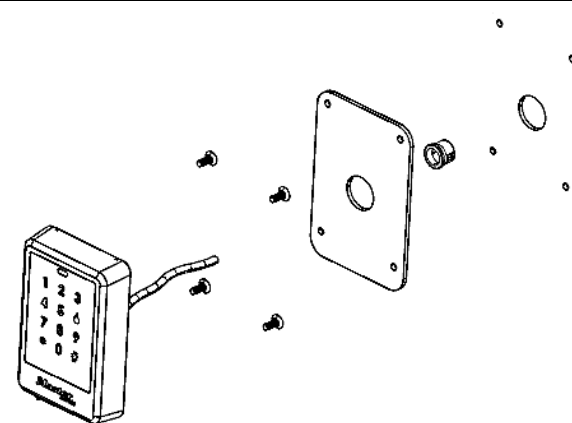
Access is granted through use of the Master Lock Vault Enterprise App (App) installed on a Bluetooth 4.0 capable-device or a manually entered Temporary Access Code (TAC) at the Keypad. When the Keypad communicates a valid credential to the Door Controller, the controller sends power to unlock the locks. The Door Controller stores transaction data, which is also uploaded to ACS by the App through the Keypad's Bluetooth connection.

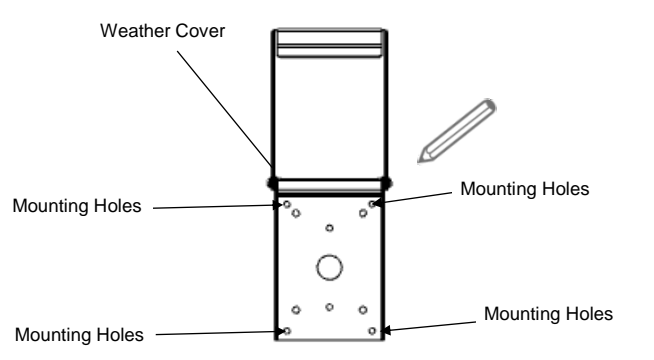
The Keypad is also used to deliver firmware and configuration updates to the Door Controller. The Keypad provides information about errors and battery status via its LED indicator. The Keypad LED status is mirrored on an indicator on the Door Controller board.

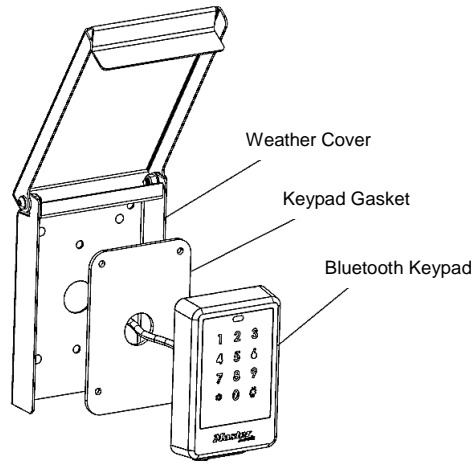
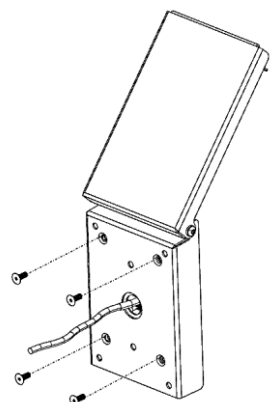
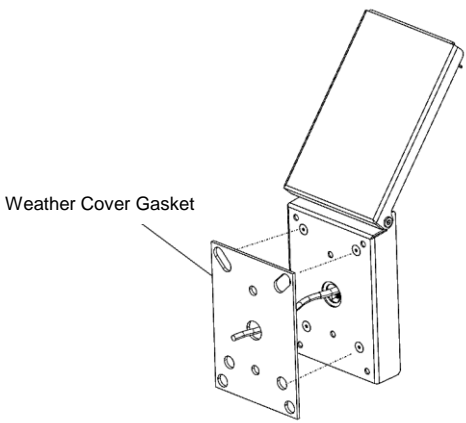
The Keypad offers a battery jump port that provides a connection for a 9V battery to supply power to the Door Controller if all other power sources have become unavailable.

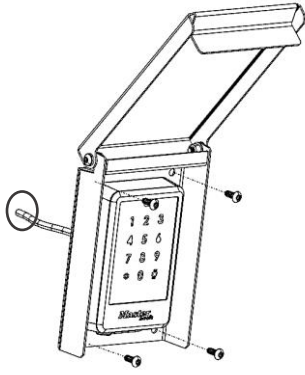
Preparation and Installation


Keypad Installation (Direct Mounting)	
<p>1. Measure</p> <ol style="list-style-type: none"> 1. Identify the desired vertical height for your installation. (Note: Ensure compliance with regulations and guidelines for accessibility) 2. Refer to the keypad mounting dimensions on pg 3 to mark the mounting holes and keypad cable through-hole on the mounting surface. Center punch all marks. 3. Using the center mark, create a 5/8" opening for the keypad cable through-hole using a drill and step bit. 4. Drill (4) 7/32" (.218") holes in the punched locations completely through the door to the other side. <p>NOTE 1: Grommets of 5/8" diameter are provided to protect the cable from sharp edges. Insert a grommet in both sides of the cable through-hole if desired.</p> <p>NOTE 2: Access to both the front and back of the mounting surface is necessary for this mounting method.</p>	
<p>2. Install (4) #10-32 studs of appropriate length into the mounting holes on the back of the Keypad (not provided)</p>	

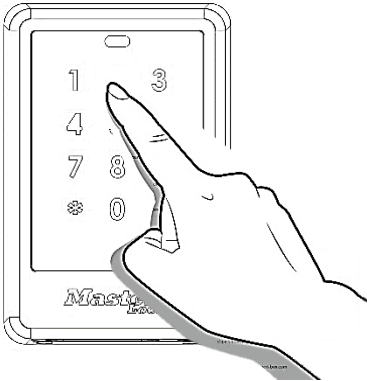
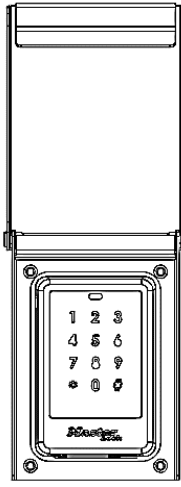
3.	Feed the keypad cable through the center hole in the mounting surface	
4.	Align the Keypad with the mounting surface so that the studs pass through the (4) mounting holes.	
5.	Thread the washers and lock nuts (not provided) onto the studs and tighten.	
6.	Trim the studs if necessary Skip to Connecting the Keypad Steps on Page 6	

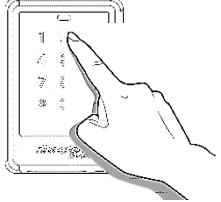
Installing the Keypad with a Weather Cover		
1.	<p>Prepare Mount</p> <p>Identify the desired vertical height for your installation. (Note: Ensure compliance with regulations and guidelines for accessibility)</p> <p>NOTE: Grommets of 5/8" diameter are provided in the weather cover kit to protect the cable from sharp edges.</p>	
2.	<p>Mark</p> <ol style="list-style-type: none"> Position the Weather Cover on the front of the mounting surface, centered and leveled over the 5/8" hole. Mark the (4) mounting holes at the outer edge of the back plate. Set aside the cover. Drill (4) holes of a size suitable for the mounting hardware appropriate for your wall condition. Follow steps 2.4 and 2.5 if you are using nutserts otherwise proceed to step 3. Center punch and drill (4) 19/64" (.297") holes in the punched locations. Install the (4) nutserts into the holes using a nutsert install tool. 	

<p>3. Assemble</p> <p>1. Place the Keypad Gasket followed by the Bluetooth Keypad 27213 into the Weather Cover, aligning the center hole and mounting holes. Pass the keypad wire pigtail through the center holes.</p>	 <p>Weather Cover Keypad Gasket Bluetooth Keypad</p>
<p>2. To attach the Keypad to the weather cover, insert the (4) #10-32 x 1/2 flathead screws into the mounting holes in the Weather Cover exterior as shown.</p>	 <p>Weather Cover Keypad</p>
<p>3. Place the Weather Cover Gasket over the back of the Weather Cover with the wires from the Keypad passing through the center of the Keypad Cover Gasket.</p>	 <p>Weather Cover Gasket</p>

<p>4. Install</p>	<ol style="list-style-type: none"> 1. Pass the Keypad wires through the center hole in the prepared mounting surface. 2. Attach the assembled Bluetooth Keypad 27213 and Weather Cover 27211 using (4) #10-24 x 1/2" Long Button Head Screws. 	
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Activating the Keypad																																
<p>5. Connect</p>	<p>Follow the keypad wiring chart to connect the Keypad cable to the keypad terminal connector provided with the Door Controller.</p> <ol style="list-style-type: none"> 1. Loosen the terminal screws on the connector 2. Insert stripped and prepared wire ends. Make sure the wire pairs remain together in their correct sequence. 3. Tighten the terminal screws, ensuring the wires are firmly engaged <p>NOTE: The Keypad cable can be extended using 22AWG twisted pair wire to a maximum total length of 50 feet using a splicing method appropriate for your installation.</p> <p>For more information about making connections, review the <i>Door Controller Installation and User Manual</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Keypad Wiring Chart</th> </tr> <tr> <th style="text-align: center;">Wire Color</th> <th style="text-align: center;">Terminal Position</th> <th style="text-align: center;">Signal Name</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Black</td> <td style="text-align: center;">BK</td> <td style="text-align: center;">Ground GND</td> </tr> <tr> <td style="text-align: center;">White/Black White</td> <td style="text-align: center;">WE</td> <td style="text-align: center;">V+ 3VDC</td> </tr> <tr> <td style="text-align: center;">Red</td> <td style="text-align: center;">RD</td> <td style="text-align: center;">Battery Jump</td> </tr> <tr> <td style="text-align: center;">White/Red White</td> <td style="text-align: center;">WE</td> <td style="text-align: center;">Tamper input</td> </tr> <tr> <td style="text-align: center;">Brown</td> <td style="text-align: center;">BN</td> <td style="text-align: center;">TX +</td> </tr> <tr> <td style="text-align: center;">White/Brown White</td> <td style="text-align: center;">WE</td> <td style="text-align: center;">TX-</td> </tr> <tr> <td style="text-align: center;">Orange</td> <td style="text-align: center;">OE</td> <td style="text-align: center;">RX+</td> </tr> <tr> <td style="text-align: center;">White/Orange White</td> <td style="text-align: center;">WE</td> <td style="text-align: center;">RX-</td> </tr> </tbody> </table> <div style="border: 2px solid black; border-radius: 15px; padding: 10px; margin-top: 10px;"> <p style="text-align: center;">Warning!</p> <p style="text-align: center;">  Ensure Power Source and Door Controller Battery Board Switch are OFF before connecting or disconnecting devices to the Controller. Failure to observe this precaution may cause damage. </p> </div>	Keypad Wiring Chart			Wire Color	Terminal Position	Signal Name	Black	BK	Ground GND	White/Black White	WE	V+ 3VDC	Red	RD	Battery Jump	White/Red White	WE	Tamper input	Brown	BN	TX +	White/Brown White	WE	TX-	Orange	OE	RX+	White/Orange White	WE	RX-
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Configuration																																

<p>6. Configure</p> <p>Note: For the Keypad to function, the Door Controller must be powered and setup in ACS. Consult the Door Controller Installation and User Manual for instructions.</p> <ol style="list-style-type: none"> 1. With the Master Lock Vault Enterprise App open on your mobile device, wake the Keypad by touching the face of the keypad. The Keypad will light and the LED will illuminate blue. 2. The Controller name will appear as a selectable option in the app. Select the controller 3. Use the App to unlock the door. This will pass the config to the controller 	
<p>7. Test</p> <p>Verify the Keypad operation by testing credentials</p> <ol style="list-style-type: none"> 1. Wake the Keypad by touch the keypad surface and present a valid credential using the App or entering a TAC on the keypad. 2. Verify that the Keypad responds as expected according to the chart on Page 9. 	
<p>Installation is now complete.</p> <p>For more information about system configuration or use, please consult the ACS Software User Manual and Door Controller Installation and User Manual, or consult your System Administrator.</p>	

Use			
Wake the Keypad	Touch any area of the keypad number plate until backlight and LED Illuminates.		
Note: The Mobile App will not detect the Keypad unless it is awake			
Enter a TAC	<ul style="list-style-type: none"> • Wake the Keypad. • Enter *1 • Enter the TAC number and press # 		
Access using the Master Lock Vault Enterprise Mobile App	<ul style="list-style-type: none"> • Open the App • Wake the Keypad • Select the corresponding device in the App and follow the App prompts 		
Use the Battery Jump	<ul style="list-style-type: none"> • Remove the black rubber plug from the bottom of the Keypad • Use a small screw driver to retrieve the battery jump connector pad from the keypad base. Tug gently to extend. Remove the plastic cover on the battery connector (Do not discard). • Connect a 9V battery to the leads and wait 1 minute for the Keypad to charge • Wake the Keypad • Enter a valid credential using a TAC or the Mobile App <p>NOTE 1: Door locks require a pulse to relock. The 9V battery must remain connected until either the power is restored, Door Controller batteries are replaced or the relock time has expired.</p> <ul style="list-style-type: none"> • After removing the 9V battery replace the plastic cover on the battery connector • Place the connector back into the bottom cavity on the keypad. • Replace the black rubber plug <p>NOTE 2: Failure to do these steps will leave the unit susceptible to electrical and environmental damage</p>		
Update Firmware	<ol style="list-style-type: none"> 1. With the Master Lock Vault Enterprise App open on your mobile device, wake the Keypad by touching the face of the keypad. The Keypad will light and the LED will illuminate blue. 2. The Controller name will appear as a selectable option in the app. Select the controller 3. Once selected, the app will ask if it can begin the firmware update. Select “Yes” 4. The app will notify you when the update is complete. Do not move during the update. 		
Keypad Status Indicators	State or Condition	LED State	Audio Response
	Sleep	Off	Off
	Key Press*	Backlight blink	Short tone
	Low Battery	Yellow, fade 8 seconds	



	Main Power	Blue, solid	
	Battery Power	Blue, slow blinks	
	Entry Error	Red, solid	
	Entry Timeout	Red, fade	
	Denied	Red, solid	Rapid tones
	Success	Green, rapid blink	Long tone
	Penalty Delay	Red, solid	Rapid tones
	Audit Trail Upload	Blue, fast blink with pause for duration	
	Firmware Download	Blue, fast blink with pause for duration	
	*Blink function depends on mode. See Backlight Behavior for details		
Backlight Performance	Mode	Function	Backlight Response**
A DayNight setting is available in ACS to manage backlight behavior.	All	Sleep	Off
	Low light	Wake Keypress	On, Blinks Off
	DayNight Enabled (default)	Wake Keypress	Off Blinks On
	DayNight Disabled	Wake Keypress	On Blinks Off
**To conserve battery life, the backlight will not illuminate if Door Controller voltage is below 2.4V			

Contact Information

Technical Support: 800-574-7260 or acsupport@mlock.com

Website: www.masterlock.com