DynaMAX
Frequently Asked Questions

Q: What operating systems supports DynaMAX as a USB or wireless/KB device?
A: USB 1.1/2.0 supported by: Windows 7, Windows 8 and OS X*** (Java Applet for Mac)
Wireless/KB supported by: iOS 7.1, Android 4.4.2, Windows 8.1 on hosts with wireless hardware

Q: What interface options does the DynaMAX support?
A: USB HID (wired), and wireless

Q: Does the power switch need to be turned ON?
A: Yes, the power MUST be switched ON when in use, for USB wired and wireless connection.

Q: Are the batteries used when the DynaMAX is connected and interfacing through USB HID?
A: No, the DynaMAX receives its power through the USB port.

Q: Are the batteries necessary to operate wirelessly if the device is connected to a USB 5v power source?
A: No, the DynaMAX recives its power through the USB port.

Q: When are the batteries used?
The batteries are ONLY REQUIRED if the DynaMAX is turned ON, is being used as a portable (wireless), and not connected to a USB port.

Q: What is the "Default" Pairing Code for a DynaMAX?
A: The "Default" Pairing Code for is 000000.

Q: When changing the wireless interface type, does the device need to be unpaired from the host?
A: Yes. Any time the wireless interface type is changed, the DynaMAX must unpair from the host and be paired again.

Q: Does DynaMAX support Custom Pairing Codes?
A: Yes, the user can set a Custom Pairing Code. See the command for Property 0x07 - Passkey in the MagneSafe V5 Programmer's Reference Manual.

Q: How long will the two "AA" batteries typically last before replacement batteries are needed?
A: If the DynaMAX is ON, is not plugged into a USB port and communicating with a wireless host, the batteries should be able to accommodate the following:
• 250 swipes per day, 7 days per week for ~ 200 days
• 500 swipes per day, 7 days per week for ~ 96 days
• 750 swipes per day, 7 days per week for ~ 64 days
• 1000 swipes per day, 7 days per week for ~ 48 days

(These estimates assume: the Blue LED is illuminated when connected to a wirelss Host and the two "AA" batteries are new. If the Blue LED is turned off, and the two "AA" batteries are new, add approximately 20% more days to each example).

Using the MagTek USB MSR Demo Program

Q: What are the commands used to retrieve the DynaMAX's Main firmware version?
A: Uncheck Auto Add Length. Send 00 01 00. A device reset is NOT necessary.

Q: What are the commands used to retrieve the DynaMAX's wireless firmware version?
A: Uncheck Auto Add Length. Send 46 04 01 00 00 00. A device reset is NOT necessary.

Q: What is the Command Sequence for erasing all of the non-volatile memory for wireless?
A: Uncheck Auto Add Length. Send 46 05 01 00 06 55 AA. Send 02 00. Reset the DynaMAX.

Q: Can the Swipe Output Channel be changed?
A: Yes, the user can temporarily "override" the Swipe Output Channel.
To change to wireless: Uncheck Auto Add Length and Send 480101. To revert back to the original setting, reset or power cycle the DynaMAX.
To change to USB: Send 480100. To revert back to the original setting, reset or power cycle the DynaMAX.

Q: What is the Command Sequence for configuring the wireless Friendly Name?
A: Uncheck Auto Add Length.
Send (as Andy), example:

For "Andy"	46 08 01 00 01 02 41 6E 64 79
For "DynaMAX-Andy"	46 10 01 00 01 02 44 79 6E 61 4D 41 58 2D 41 6E 64 79

Send 02 00. Reset the DynaMAX.

For an easy to use ASCII to HEX conversion tool see:
http://www.asciitohex.com/

Q: What is the Command Sequence for configuring the wireless LED functionality control?
A: Uncheck Auto Add Length. Send 46 05 01 00 01 13 00. (00 is set to Off). Send 46 05 01 00 01 13 01. (01 is set to ON). A device reset is NOT necessary.

Q: What is the Command Sequence for configuring the wireless Interface Type as wireless KB?
A: Uncheck Auto Add Length. Send 46 05 01 00 01 11 01. Set wireless interface type to KB. Send 02 00. Reset the DynaMAX.

Q: What is the Command Sequence for configuring the wireless Interface Type as standard wireless?
A: Require auto add length to be OFF. Send 46 05 01 00 01 11 02. Set interface Type to standard wireless. Send 02 00. Reset the DynaMAX.

MAGSTRIPE:	3 Track bidirectional, Read
ENCRYPTION:	TDEA (3DES)-CBC using DUKPT
CERTIFICATIONS:	Ingress Potection IP-42; FCC Title 47 Part 15 Class B; CE Level C EMC; CE Safety; UR/CUR UL Recognized; CA Proposition 65 (CA); WEEE
SCRA	Open standards-based encryption 3DES DUKPT Key Management MagnePrint® Card Authentication Tamper Resistant Security Module (TRSM) Immediate card data tokenization Protects card data per PCI DSS requirements Generates dynamic data with each swipe Device/host authentication Unique, non-changeable serial number Time bound session IDs
MECHANICAL	
Dimensions (LxWxH)	4.74 in. x 1.47 x 1.82 in. (120.4 x 37.34 x 46.23mm)
WEIGHT	
With batteries:	4.73 oz. (134.09g)
No batteries:	3.03 oz. (85.90g)
MOUNTING OPTIONS	Desktop anti-skid pad, attached weight, threaded mounting holes and optional recessed cable, and adhesive and optional recessed cable, and Hook and loop fasteners, and Lanyard
USER INTERFACE CHARACTERISTICS	
STATUS INDICATORS:	Power LED (Blue); Three-color General Status LED (Red/Green/Amber)
SWIPE SPEEDS:	6 ips to 60 ips (ips: inches per second)
OPERATING SYSTEMS:	iOS 7.1; Android 4.4.2; USB: Windows 7, Windows 8; Wireless: Windows 8.1 on hosts with wireless hardware
CONNECTIONS	
DATA CONNECTIONS:	Wireless, Micro-USB, compatible with USB 1.1, USB 2.0
WIRED:	Micro-USB B, configured to appear as USB HID
WIRELESS:	Wireless Range: Min 33 ft. (10 m) in line-of-sight conditions; Wireless Frequency: 2.4 MHz
ELECTRIC CHARACTERISTICS	
POWER INPUTS:	USB powered via Micro-USB B jack
BATTERY TYPE	Two Alkaline "AA"
BATTERY STANDBY TIME:	5 years
VOLTAGE:	5 VDC on USB power 3 VDC on battery power
MAX CURRENT DRAW:	< 100 mA
ENVIRONMENTAL	
Temperature	32°F to 113°F (0°C to 45°C)
Storage	-4 °F to 149 °F (-20 °C to 65 °C)
Humidity	
Operating	5% to 90% noncondensing @ 23 °C
Storage	5% to 90% noncondensing