



# APPLICATION NOTE

**APP# 160**

## **NITROMAG KEYPAD**

## **OPERATING SYSTEM UPDATE**

**MCS-NitroMag-OEM, MCS-NitroMag-DOOR , MCS-NitroMag-PANEL**



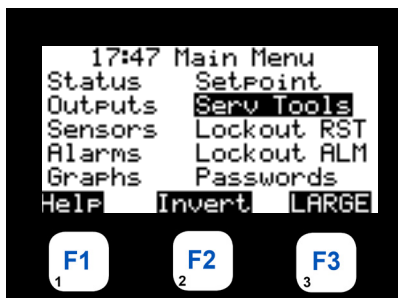
**PRIOR TO INSTALLING ANY NEW OPERATING SYSTEM ONTO YOUR CONTROLLER  
BE SURE THAT YOU BACKUP THE SYSTEMS FIRST**

### **STEP 1A - NITROMAG KEYPAD (version 1.2.9 and older)**

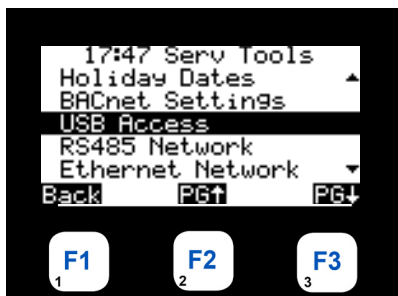
1. OPEN MCS-CONNECT and connect to your keypad NITROMAG controller.
2. Login using Factory or higher pass code
3. Plug in a USB drive to your computer
4. Click to Receive a Config to the USB drive and save file to the USB drive

### **STEP 1B - NITROMAG KEYPAD (version 1.2.10 and higher)**

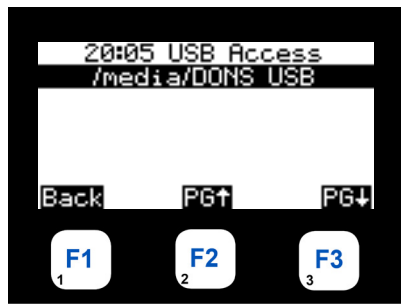
1. Plug in USB drive into the Keypad USB port.
2. Click on 'MENU'
3. Use arrows to move to 'SERV TOOLS', click to enter



4. Use arrow to move to 'USB ACCESS' click to enter



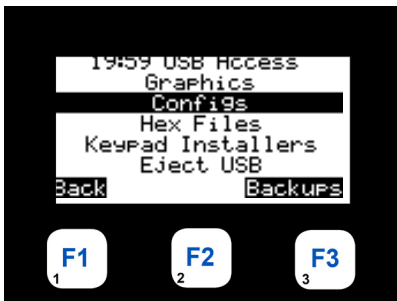
5. Click on '/media'



6. Use arrow to move to 'Create New Backup'



7. Backup CONFIG FILE



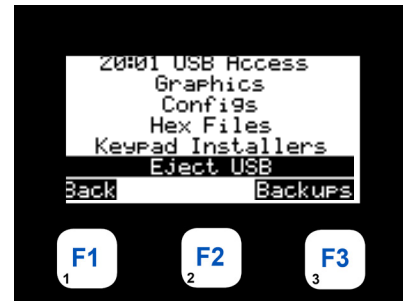
8. Backup HEX File (Firmware)



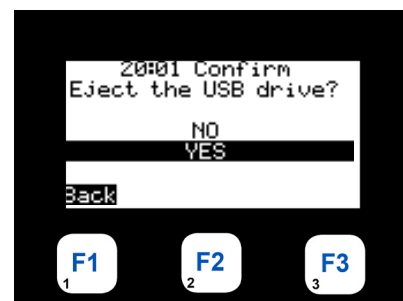
9. Backup Complete, Click on arrow ←, or 'back' (F1)



10. Eject USB drive



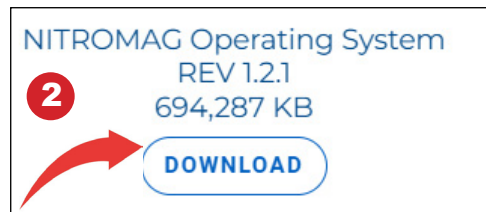
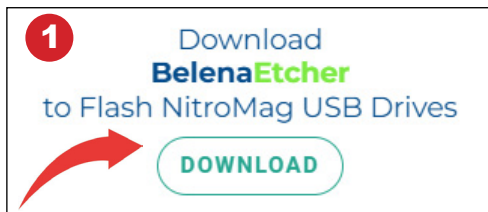
11. Eject, YES



**PROCEED TO STEP TWO  
DOWNLOADING NEW  
KEYPAD OPERATING SYSTEM**

**STEP TWO:**

1. Download BalenaEtcher from MCSControls.com and install it on your desktop or laptop.
2. Download NitroMag Operating System from [MCSControls.com](https://mcscontrols.com) and save it to your desktop or laptop.



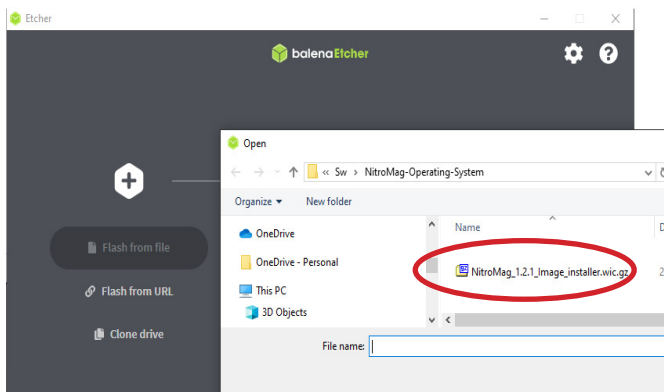
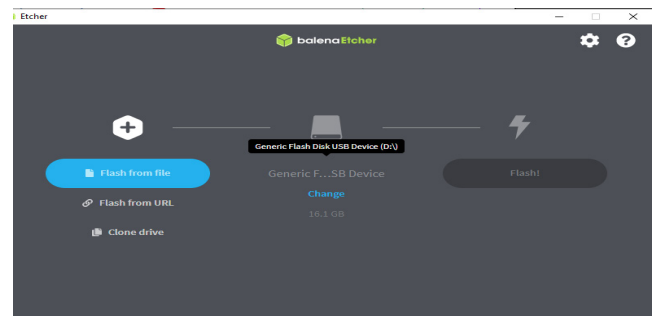
**\*\*Attention:\*\*** A USB drive with a minimum capacity of 8GB is required. (We recommend selecting a reputable brand, as some drives may not be fully compatible or may not perform optimally).

**STEP THREE :**

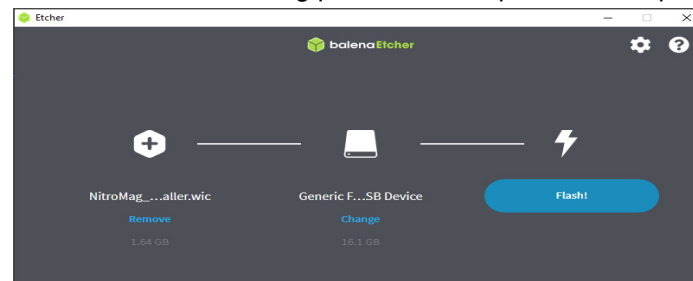
Insert the new USB flash drive into an available USB port on your laptop or desktop. Then, launch BalenaEtcher.

**STEP FOUR:**

In BalenaEtcher, Click on “Flash from file” and select the [NitroMag\\_X.X.X\\_image\\_Installer.wic.gz](#) file that you previously saved on your desktop or laptop download.



Proceed with the flashing process to complete the setup.



**NOTE:** You must have **ADMIN RIGHTS** to save this file to the USB drive. Click “Yes” to proceed.



1. Save the NitroMag\_1.2.3\_Image\_installer.wic.gz image to a USB drive, then safely remove the USB drive from your computer.
2. Insert the USB drive into one of the USB ports on the back of the MCS NitroMag Keypad.
3. Press the RESET button on the back of the MCS NitroMag Keypad. The update process will start automatically.



4. When the update is complete, remove the USB drive from the NitroMag Keypad.
5. Press the RESET button again to restart the device.



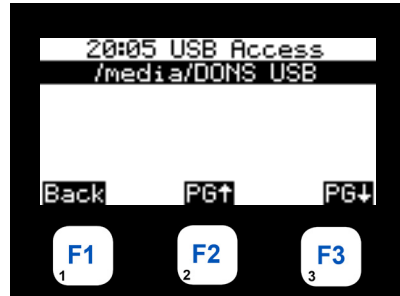
**PROCEED TO RESTORE  
FILES BACKED UP**

## Restoration Procedure MCS-NitroMag Keypads

After the operating system update on the MCS-NitroMag Keypad is complete, restore the required config File and firmware.

Insert the USB drive containing the latest backup created prior to updating the operating system.

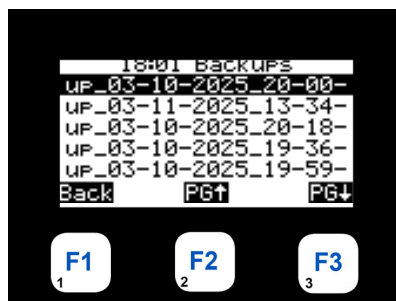
1. Click on '/media'



2. Use arrow to move to 'Create 'Restore from Backup'



Choose the latest backup file



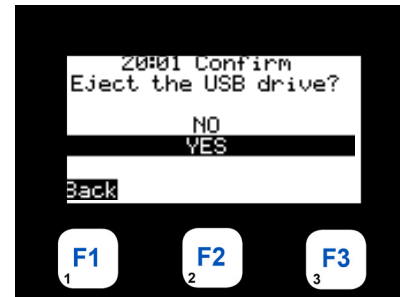
3. Restore Complete, Click on arrow ←, click on back (F1)



4. Eject USB drive



5. Eject, YES



Any questions regarding this release, contact: [support@mcscontrols.com](mailto:support@mcscontrols.com)

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