

Notifier Battery Calculations Release 2.1 Readme File

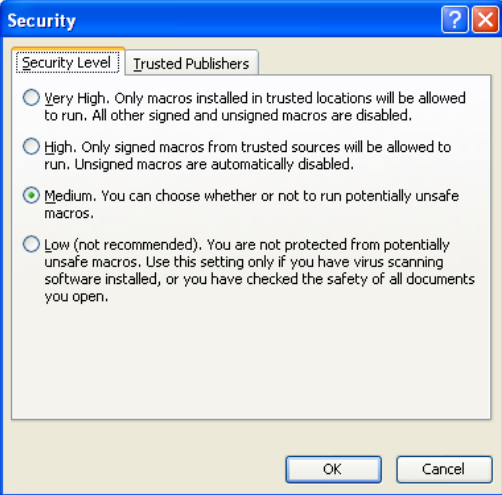
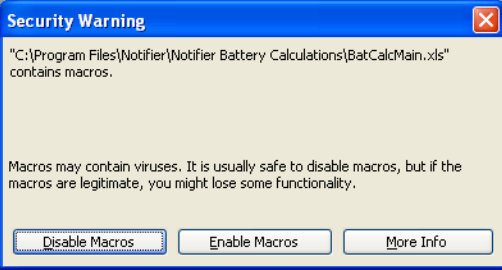
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Build 26
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This Readme file covers software requirements, installation notes, and contents of the Notifier Battery Calculations package. For updates, go to www.magni-fire.com.

Software Requirements

Battery calculation spreadsheets for control panels and power supplies are developed in Microsoft® Excel and are based on the battery calculation tables in the Notifier manuals.

Important: To run NOTIFIER battery calculations, you must configure and run MS Excel macros.

To configure and run macros	Example
1. Make sure that Excel is configured to run macros.	<p>In Excel select: Tools>Macro>Security and then select Medium.</p> 
2. When prompted to run macros, select "Enable Macros".	<p>When starting NOTIFIER battery calculations, you'll be prompted like this:</p>  <p>Select Enable Macros or the battery calculations will not work.</p>

Installation Notes

To install, run the NotifierBatCalc.exe and follow the prompts. When finished with the install, you can launch the shortcut to BatCalcMain.xls (on the desktop).

Contents

The Notifier Battery Calculations are a set of Microsoft Excel workbooks that contain the following:

File	Description
BatCalcMain.xls	Launch page for all battery calculation sheets and Notifier Device Database.
Notifier Device database.xls	Excel database that contains current values for notification appliances, initiating devices, annunciators, relays, power supplies, and modules.
Non-Panel Devices.xls	Excel workbook that contains calculations for devices that typically require more configuration information, such as the ACM-8R, DPI, LDM, RFX, and SCS.
<ul style="list-style-type: none">▪ 411UDAC Fire Alarm Communicator▪ AFP-100 Analog/Addressable Fire Alarm Control Panel ▪ AFP-200 Analog Control Panel▪ AFP-300 and AFP-400 Analog Fire Panel▪ NCA Network Control Annunciator▪ NFS-3030 Intelligent Control Panel▪ NFS-640 Intelligent Addressable Fire Alarm System▪ SFP-1024 Conv. Fire Alarm Control Panel With Built-In DACT▪ SFP-2402 Fire Alarm Control Panel▪ SFP-2404 Fire Alarm Control Panel▪ XPIQ Quad Intelligent Audio Transponder▪ ACPS-2406 Addressable Charger/Power Supply▪ FCPS-24S6 Remote Power Supply▪ FCPS-24S8 Remote Power Supply▪ FCPS-24/FCPS-24E Field Charger/Power Supply▪ NFW-100 Fire Alarm	Excel battery calculation workbooks for the control panels and power supplies.

<p>Control Panel</p> <ul style="list-style-type: none"> ▪ DAA-5025/DAA-5070 Digital Audio Amplifier ▪ System 500 Conventional Fire Alarm Control Panel ▪ System 5000 Conventional Fire Alarm Control Panel ▪ AM2020/AFP-1010 Fire Alarm Control Panel ▪ FireVoice 25/50 Voice Evacuation Control Panel ▪ NFS2-3030 Intelligent Control Panel ▪ NCA2 Network Control Annunciator ▪ NFS2-640 Intelligent Addressable Fire Alarm System ▪ NFW2-100 Fire Alarm Control Panel ▪ NFS-320 Fire Alarm Control Panel ▪ NFW-50 Fire Alarm Control Panel ▪ SFP-5UD/S Fire Alarm Control Panel ▪ SFP-10UD/S Fire Alarm Control Panel ▪ RP-2001/RP-2002 Agent Release Panel ▪ ACPS-610 Addressable Charger/Power Supply ▪ DAA-7525 Digital Audio Amplifier ▪ Distributed System ▪ NFW2-100 Rev. 2 ▪ NSP-25 Intelligent Control Panel 	
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Version History

Release 2.1 Changes (May 6, 2010):

- Added the **NSP-25 Intelligent Control Panel** sheet to the program.
- Wheelock **Exceder** Series Horns, Strobes, and Horn/Strobes added to the database.
- Updated the **SFP-5UD and SFP-10UD** sheet.
 - Added the N-ANN-RLY to the calculation.
 - Updated the way Conventional Smoke detectors are added to the sheet. Alarm current draw for 2-wire and 4-wire devices are now handled based on how many IDC circuits are being used. 0.040 amps are added per IDC Circuit that is being used on the Control Panel.
 - Added drop downs for the Main Circuit Board and the 4XTM to take into account added current draw for using Reverse Polarity Alarm output and the Reverse Polarity Trouble output.

- Updated versioning method for sheets so all sheets will have a new version number when **Live Updates** are performed.
- Corrected a bug in the **Update** procedure that caused error messages to appear in Windows Vista and Windows 7.

Release 2.02a Changes (Live Update Release):

- Added the NP-100R to all of the FireWarden Series control panels.
- The following parts have been removed and replaced with updated parts:
 - RA400Z -> Replaced with RA100Z
 - RTS451 -> Replaced with RTS151
 - RTS451KEY -> Replaced with RTS151KEY
- Added the following parts to the database:
 - FSP-851R, NP-100R, and B200SR.

Release 2.02 Changes:

- Made the Keyboard/Display option for the NFS-3030 and NFS2-3030 sheet selectable rather than defaulted to 1.
- Added the AMPS-24 to the NFS-3030 and NFS2-3030 sheet.
- Added the ACPS-610 to the C4 – Maximum Secondary Alarm Draw section of the NFS2-3030 Sheet.
- Added several power supplies to the C4 – Maximum Secondary Alarm Draw section of the NFS2-640 Sheet.
- Corrected a problem with the NCA, NCA2, and Distributed System battery calculation sheet that was not correctly setting the minimum and maximum allowable current draw for certain power supplies.
- Changed version on all sheets to Version 2.0.2

Release 2.01 Changes:

- Fixed the totals formulas for the NFW-50, NFW-100, NFW2-100, and the NFW2-100 Rev.2 Control Panels.
- Added the following parts to the database:
 - SW-ALERT, SWH-ALERT, SPSW-ALERT, SW-CLR-ALERT, SCW-CLR-ALERT, SPSCW-CLR-ALERT, MHR, MHW, MDL3R, MDL3W, PF24V, CO1224T, 2151T, DNR, DNRW, 2251-COPTIR, 7251DH, FCM-1-REL, FMM-4-20, FSC-851, NBG-12LXBL, NBG-12LXSP, XP10-M, XP6-C, XP6-MA, XP6-R, FSL-751D, B501BH-2, and B501BHT-2.
- Added the APS2-6R to the following control panels:
 - NFS2-3030, NFS2-640, NFS-320, NFS-3030, NFS-640, AM-2020, System 5000, AFP-400, AFP-200, XPIQ, ACPS-610, NCA2
- Added 2 new devices to the FireWarden Series Panels
 - NMM-100-10
 - NZM-100-6
- Updated the Distributed System battery calculation to allow for more power supply selection.
- Corrected a spelling mistake on all sheets on the Battery Size sheet. The word secondary was misspelled in the Current Draw table.
- Updated the Update program.
- Fixed in all sheets the way users enter in secondary alarm time in minutes. This was done to allow the Battery Size sheet to be copied and pasted easier into programs like Auto-CAD.
- Clarified ACM/AEM 24/46 Annunciator LED's item in relevant battery calculations. Made it clear to only enter in those LED's that were illuminated in Non-Alarm conditions rather than all LED's.
- Changed version on all sheets to Version 2.0.1

Release 2.0 Changes:

- Fixed dropdown boxes in all sheets for Initiating Devices and Notification Appliances. All dropdowns should now accurately display the correct current draw when typing in part numbers.
- Fixed all Intelligent Control panels to more accurately display current draw for SLC loop devices. When entering in SLC loop devices the sheets will no longer use alarm current draws for individual parts but instead charge the maximum amount of current allowed per SLC loop. This corrects a bug that was causing extraordinarily high current draws when large quantities of devices were used.
- Added the ACPS-610 to all UL 9th Control Panels.
- Updated KDM-R2 current draw for the NFS-320 and NFS2-640 Control Panel.
- Updated current draws for the NFS-3030 and NFS2-3030 sheets for the Keyboard/Display Option and removed the current draw for the AMPS-24 power supply to match the AMPS-24 manual.
- Added the N-ANN-RLY and the N-ANN-LED to the FireWarden 50 Control Panel.
- Fixed the warning for the Primary Non-Alarm current inside the NFS2-640 sheet. The value was moved from 3amps to 4.4amps.
- Added the NFW2-100 Rev. 2 Sheet.
- Live Update added to the battery calculation sheets. Note: Make sure all battery calculation sheets and the launch page are closed before running the update program.
- Updated all Notifier logo's in all battery calculation sheets.
- Changed version on all sheets to Version 2.0

Release 1.7.4a Changes:

- Added new DAA-7525 battery calculation sheet
- Fixed current draws and sheet labels on the DAA-5025/DAA-5070 sheet.
- Changed version on all sheets to Version 1.7.4a

Release 1.7.4 Changes:

- Added new System Sensor Notification Appliances to the database.
- Changed version on all sheets to Version 1.7.4

Release 1.7.3 Changes:

- Fixed Current Draw totals formulas on the Current Draw sheet for the FireWarden-100 and FireWarden-100-2. These formulas were inadvertently leaving off the last 2 rows on the sheet.
- Added the ACPS-610 Sheet
- Added the Distributed Systems Sheet
- Changed version on all sheets to Version 1.7.3

Release 1.7.2 Changes:

- Added SFP-5UD/S Sheet
- Added SFP-10UD/S Sheet
- Added RP-2001/RP-2002 Sheet
- Fixed AC Branch current inside of the FCPS-24s6 and FCPS-24s8 sheets to read 3.2 amps in 120 VAC.
- Changed version on all sheets to Version 1.7.2

Release 1.7.1 Changes:

- Fixed a bug where all Notification Appliances were not being displayed in the dropdown boxes. All Notification Appliances should be displayed correctly now.
- Added new Notification Appliances to the Notifier Device Database.
- Changed version on all sheets to Version 1.7.1

Release 1.7 Changes:

- Adding an APS-6R will now appropriately add the extra 6 amps of power and will no longer cause cells to turn red before total power runs out.
- Maximum battery size that fits in each panel/power supply cabinet has been fixed. Adding 26AH batteries to the AMPS-24 power supply will no longer generate an error on the Battery Size page.
- Changing the voltage from 120 VAC to 220/240 VAC will now correctly change the voltage on the Battery Size page.
- Checked current draws and added new devices for Gentex and Wheelock parts to the Notifier Device Database.
- Added miscellaneous parts to the Notifier Device Database.
- Added progress bars to some of the sheets so users can more accurately keep track of how much power is being used when AC is on (primary power).
- Added the NFW2-100 sheet.
- Added the NFS2-640 sheet.
- Added the NFS2-640 sheet.
- Added the NFW-50 sheet.
- Added the SCS-8 and SCS-8L Smoke and HVAC Control Station devices to compatible panels.
- Minor bug fixes and interface changes.
- Changed version on all sheets to Version 1.7.

Release 1.6 Changes:

- Added a new sheet, AM2020/AFP-1010 Fire Alarm Control Panel.
- Added a new sheet, NFS2-3030 Intelligent Control Panel.
- Added a new sheet, NCA2 Network Control Annunciator.
- Corrected the DAA-5025/5070 Digital Audio Amplifier sheet, updated current draws and format to better reflect the manual.
- Updated Notifier Device Database:
 - Updated existing System Sensor NAC devices current draws.
 - Added new SpectrAlert Advance devices from System Sensor.
 - Added a few new devices to the Initiating Device section of the database.
 - Updated current draws for the FM-101, FZM-1, and the FDM-1.
- Fixed a bug in the SFP-2404 sheet that wasn't allowing total secondary alarm load to reach 6.0 amps after adding an XRM-24 transformer.
- Fixed the NFS-3030 battery calculation sheet Current Draw page to now show the totals at the bottom when users do a "Show Selected Devices". Also fixed the gray area around the C4 table to now appear white so if users want to print the "Show Selected Devices" view there will not be a gray background showing up around the table on the printout.
- Corrected some sheets that were not updating battery-charging ranges when users were selecting auxiliary power supplies.
- Updated main code module to reflect changes made to new and existing sheets.
- Version on all sheets changed to 1.6.

Release 1.5.2 Changes:

- Updated the 411UDAC sheet to allow the use of only one battery.
- Fixed a bug that was causing the Initiating Device dropdowns to not be populated correctly.
- Added a 4th column to the ACPS-2406 sheet. Users will now be able to configure Secondary Alarm requirements for the power supply.
- Added a check box to the NFS-640 sheet that enables users to cut the JP12 jumper and lower the SLC loop current draw from 400mA to 200mA.
- Updated the Notifier Device Database with all new parts and current draws for Notification Appliances and Initiating Devices.
- Added a new sheet, the DAA-5025/DAA-5070.

- Added System 500 and System 5000 sheets.
- Updated Launch Page to include newly added sheets.
- Version on all sheets changed to 1.5.2

Release 1.5.1 Changes:

- Repaired the NFW-100 sheet to re-include the XRM-24 Transformer. The XRM-24 Transformer was inadvertently left out of the 1.5 release of the Notifier Battery Calculation sheets.

Release 1.5 Changes:

- Added RFX Wireless to all relevant sheets.
- Repaired NFW-100 sheet to include total alarm load for Addressable Devices. Fixed current draws and added new devices.
- Added 2 new devices to the database, the FSB-200 and the PF24.
- Changed the way adding new power supplies effects maximum current. Adding power supplies will now increase capacity of all sheets to handle more devices based on total current available.
- Added the ability for calculating maximum secondary alarm current for relevant sheets. This changes the way certain sheets work through the addition of audio amplifiers and external power supplies that are backed up by the panel's batteries. Reports have been changed to accommodate
- Changes in main code module to reflect the variety of changes to the sheets like the new reports and new devices.
- Versioning changed on all sheets to 1.5

Release 1.4 Changes:

- Added the ability to save sheets anywhere on a user's hard drive. Users will now be able to access the Notifier Device Database from anywhere on the machine.
- Added Project Information to the Battery Size sheet for all panels. Users will now be able to enter in Project Information and have it for their print out.
- Added a button to clear the Project Information on the Battery Size sheet.
- Updated print area on the Battery Size sheet so that now it will print out in two different sheets making information more clear.
- Rebuilt all workbooks to remove excess "bloat".
- Updated the NFW-100 and AFP-100 calculation sheets to allow for the input of a XRM-24 transformer to increase the capacity of each panel.
- Updated Notifier Device Database to include Multi-Candela devices from System Sensor and updated and fixed several current draws that were inaccurate.
- Added the LCD-160 display to the NFS-3030 sheet.
- Updated version on Battery Calc front end to 1.4.

Release 1.3 Changes:

- Split the FCPS-24s6/8 sheet into two separate sheets named FCPS24s6.xls and FCPS24s8.xls. Changed labels and conditional formatting to handle the amperage capacity of each charger.
- Expanded the following sheets to have 15 Notification Appliance and Initiating Device dropdowns: ACPS-2406, FCPS-24s6, FCPS-24s8, NFS-640, NFS-3030, and XPIQ.
- Got rid of separating Notification Appliances into different circuits and consolidated them into one section on the following panels: AFP-200, SFP-2404, and XPIQ.
- Modified code to handle the new setup of Notification Appliance and Initiating Device dropdowns.

- Modified the Battery Calc front end to add in the new separate sheets of FCPS24s6 and FCPS24s8 and updated versioning to 1.3.
- A few minor bug fixes to the sheets.

Release 1.2 Changes:

- Changed the number of Initiating Device dropdowns from five to eight. Changes apply to **all sheets**.
- Changed the number of Notification Appliance dropdown boxes from five to eight, eight to fourteen, and twelve to twenty. Changes apply to **all sheets**.
- Added the XP6-R, XP6-C, XP6-MA, and XP10-M modules to the AFP-200, AFP-400, NFS-640, and NFS-3030 sheets.
- Added the NFW-100 Intelligent Fire Alarm Control panel to the battery calculations sheets.
- Added a link to the NFW-100 Intelligent Fire Panel into the Battery Calculation front end.
- Minor bug fixes to some of the sheets.
- Updated revision on Battery Calculation Front End to 1.2.

Release 1.1 Changes:

- Changed the text on the AC_Branch sheet of **all sheets** to read “Note: These selections only determine the AC branch current. If these devices will affect the battery requirements, you need to select them on the System Current Draw sheet.”, “on the” was added to the end so it would make sense.
- Added two buttons to the Battery Size sheet on **all sheets** to the derating factor section to change the derating factor to reflect Canadian requirements about how high a derating factor should be used based on what size batteries are used.
- Replaced the Check Hyperlinks on the Battery Size sheet on **all sheets** with buttons set not to print to give a better printout. New code was added to each button to give the same functionality as the check hyperlinks.
- Added versioning to the Battery Calculation front end. Set the version release at 1.1.
- Changes made to the parts database that include new parts and updated current draws for System Sensor notification appliances.
- Redesigned front end and fixed a bug that was causing drop downs in all sheets from not working properly.

Note that the current values in this workbook only provide a guideline for calculations. Because these values are subject to change and interpretation, it is the customer’s responsibility to make sure the values are up-to-date and valid.