

TECHNICAL INFORMATION BULLETIN

FIRECLASS 501 Firmware v1.14 and FC Console v1.14

1 General Note

This TIB refers to the changes made since versions 1.12 and 1.13.

- FW version 1.14.01 – FC Console 1.14.0.0

Versions 1.14 of FC501 Panel Firmware and FC Console Software are available for all markets.

The main change for this release is:

- New range of Sounder and Sounder/Beacon Devices detailed on section 3.1.1.
- Within the new range, there are some Sounder and Sounder/Beacon Devices that are backward compatible to be used as the direct replacements for legacy loop devices detailed on section 5.1.

2 Upgrading from earlier versions

Earlier versions detailed on section 5.2 can be upgraded to version 1.14. Firmware upgrade instruction is Appendix A of this document: [Firmware Upgrade Quick Guide](#).

3 Changes made since Version 1.12.09

3.1 FW Versions 1.13.49, FW Version 1.14.01, and FC Console Version 1.14.0.0

FC501 Panels with firmware version 1.14.01 need to be configured with FC Console 1.14.

There were a limited number of panels released with FireClass firmware version 1.13.49 and these can be configured with FC Console 1.14 following this release.

3.1.1 New Devices

The system now offers support for a new range of sounder and sounder/beacon devices.

EN54-23 compliant products

There is now a new range of products specifically designed to be compliant with EN54-23. These products comply to this standard which offers key information on performance criteria and testing of Visual Alarm Devices (VADs) and ensures all device parameters are measured in a uniform manner throughout Europe.

Prior to this release, misinterpretation and confusion over a particular product's performance was a common concern in the industry as there was no EN standard in existence for VADs.

Addressable Wall Sounder and VAD

The FC440AV range of compact addressable wall sounders with a visual alarm device (VAD) includes three models with the same low current and high output specification; Red or White body indoor models plus an external IP rated version for either outdoor or harsh environment applications.

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Addressable Sounder VAD Base

The FC440AVB and FC441AVB are addressable sounder bases with a visual alarm device specifically for use with the FIRECLASS addressable detectors. The bases are available as fire alarm sounders with visual alarm device (VAD) in two power outputs, Standard and High:

3.1.1.1 New Visual Alarm Devices (VADs) added:

- FC440AVB (576.440.006)
- FC441AVB (576.440.014)
- FC440AVW (576.440.007)
- FC440AVR (576.440.008)
- FC445AVR (576.440.009)

3.1.1.2 New Visual Indicating Devices (VIDs) added:

- FC440AIB (576.440.010)
- FC440AIW (576.440.011)
- FC440AIR (576.440.012)
- FC445AIR (576.440.013)

3.1.1.3 New accessories added for VIDs and VADs:

- B-CAP (557.440.001)
- A-CON (557.440.002)
- S-BOXR (557.440.007)
- S-BOXW (557.440.008)
- A-BOX (557.440.010)
- D-BOXR (557.440.011)
- D-BOXW (557.440.012)

3.1.1.4 Added new addressable and non-addressable sounder bases:

- FC440DSB (576.440.001) – non-addressable
- FC440SB (576.440.002) - addressable

3.1.1.5 New wall-mounted sounder devices added:

- FC440SW (576.440.003)
- FC440SR (576.440.004)
- FC445SR (576.440.005)

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3.1.2 New Features

Using version 1.12.09 the device base remote LED settings for Trigger Points were not saved for the project file. This has been corrected with FC Console version 1.14.0.0 and any saved Trigger Points are reloaded.

4 Product Codes

Product Code	Model	Description
576.440.001	FC440DSB	Detector Base Sounder
576.440.002	FC440SB	Addressable Base Sounder
576.440.003	FC440SW	Addressable Wall Sounder White
576.440.004	FC440SR	Addressable Wall Sounder Red
576.440.005	FC445SR	Addressable Wall Sounder Weatherproof
576.440.006	FC440AVB	VAD Addressable Base Sounder Beacon Standard Power
576.440.014	FC441AVB	VAD Addressable Base Sounder Beacon High Power
576.440.007	FC440AVW	VAD Addressable Wall Sounder Beacon White
576.440.008	FC440AVR	VAD Addressable Wall Sounder Beacon Red
576.440.009	FC445AVR	VAD Addressable Wall Sounder Beacon Weatherproof
576.440.010	FC440AIB	VID Addressable Base Sounder Beacon
576.440.011	FC440AIW	VID Addressable Wall Sounder Beacon White
576.440.012	FC440AIR	VID Addressable Wall Sounder Beacon Red
576.440.013	FC445AIR	VID Addressable Wall Sounder Beacon Weatherproof
557.440.001	B-CAP	VID VAD Blanking Cap For Sounder Bases White
557.440.002	A-CON	VID VAD Conduit Adaptor For Sounder Bases White

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557.440.007	S-BOXR	VID VAD Shallow Surface Back Box For Indoor Wall Sounder Red
557.440.008	S-BOXW	VID VAD Shallow Surface Back Box For Indoor Wall Sounder White
557.440.010	A-BOX	VID VAD Flush Back Box Adapter For Indoor Wall Sounder Metal
557.440.011	D-BOXR	VID VAD Deep Surface Back Box For Indoor Wall Sounder Red
557.440.012	D-BOXW	VID VAD Deep Surface Back Box For Indoor Wall Sounder White

5 Compatibility:

5.1 VIDS Backwards Compatibility:

The device in the left column can be replaced by a device in the right column without having to update the configuration. For example, the system can stay at older versions (1.12 or 1.13). If the new features are required, then the devices will need to be configured as the new device and Version 1.14 used.

Legacy	Basic description	Replacement
430LPASB	3000 Series, Sounder Beacon Base	FC440AIB
410LPAV R/W	Symphoni Sounder, Beacon (indoor)	FC440AI R/W
410LPAV65	Symphoni Sounder, Beacon (outdoor)	FC445AIR
430LPBSB LP	EN54-23 Loop Powered, Beacon Sounder Base	No new device
410LPBS R/W	EN54-23 Beacon, Symphoni Sounder (indoor)	No new device
410LPBS LP	EN54-23 Beacon, Symphoni Sounder IP65 (outdoor)	No new device
410LPSY R/W	Symphoni Sounder (indoor)	FC440S R / W
410LPSY65	Symphoni Sounder (outdoor)	FC445SR
430LPSB	3000 Series, Sounder Base	FC440SB

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5.2 FC Console Compatibility for Previous versions and FC 501 upgrades

- FC Console 1.14.0.0 manages FC 501 panel versions 1.14.01, and lower.
- FC Console 1.14.0.0 can be installed over an existing FC Console on the PC.

NOTE: Installing a new version FC Console overwrites any previous versions.

6 Technical Support

Please send Technical Support Issues to Techservices-Detection@tycoint.com

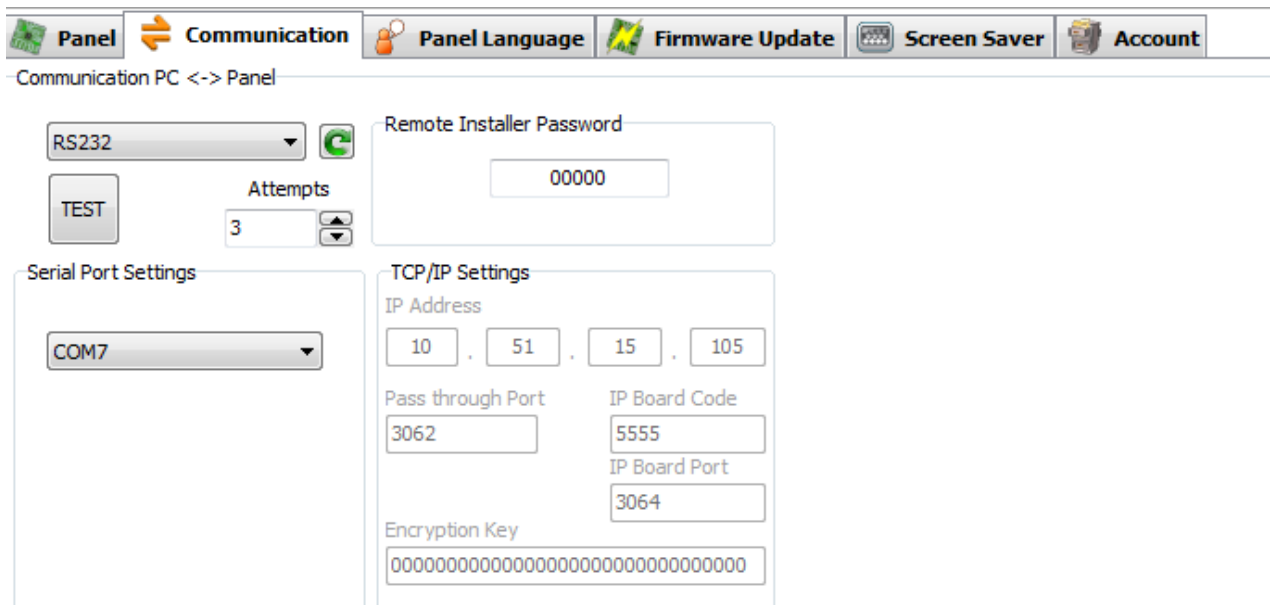
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Appendix A

FC 501 Firmware Upgrade Quick Guide

FIRMWARE UPGRADE PROCEDURE USING FIRECLASS CONSOLE SOFTWARE:

1. Connect the communication cable you are going to use (PC-LINK or USB)
2. Install USB driver when asked (after inserting USB connector on the PC host port) [*ONLY IF YOU ARE GOING TO USE USB CABLE*].
You can find the correct drivers in the FireClass Console Software installation directory (ex: *C:\Program Files\FireClass\FireClass_Console\Drv*). Use "X86" version for 32 bit Windows™ version and "X64" for 64 bit version.
Please be aware that Windows may show a driver security warning. In this case please continue forcing the installation procedure.
3. Go to the FireClass Console software Main page -> "Communication" tab and select the channel you are going to use: RS232 (COMx) or USB (USBx)



The screenshot shows the 'Communication' tab in the FireClass Console Software. The top navigation bar includes 'Panel', 'Communication' (selected), 'Panel Language', 'Firmware Update', 'Screen Saver', and 'Account'. Below the navigation bar, there are several settings sections:

- Communication PC <-> Panel:** A dropdown menu set to 'RS232' and a 'TEST' button.
- Attempts:** A numeric input field set to '3'.
- Remote Installer Password:** A text input field containing '00000'.
- Serial Port Settings:** A dropdown menu set to 'COM7'.
- TCP/IP Settings:**
 - IP Address:** Four input fields containing '10', '51', '15', and '105'.
 - Pass through Port:** An input field containing '3062'.
 - IP Board Code:** An input field containing '5555'.
 - IP Board Port:** An input field containing '3064'.
 - Encryption Key:** A long text input field containing a series of zeros.

4. Go to the FireClass Console software Main page -> "Firmware Update" tab
5. Select "Browse" and load the .BIN packet containing the FW

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6. Software will scan the packet and then will show the FW versions read on file and those detected on the connected panel


Firmware Update

Firmware File

Processor	Detected Version	Version on File
MAIN_CTRL	1.0.20.0	1.0.20.0
AUX_CTRL	1.0.19.0	1.0.19.0
REPEATER	4.0.3.0	4.0.3.0
MFI	0.0.0.0	3.0.2.0
IP	1.2.0.3	1.2.0.3

Processor	Detected Version	Version on File
<input checked="" type="checkbox"/> MAIN_CTRL	1.0.20.0	1.0.20.0
<input checked="" type="checkbox"/> AUX_CTRL	1.0.19.0	1.0.19.0
<input type="checkbox"/> Repeater#1	4.0.3.0	4.0.3.0
<input type="checkbox"/> Repeater#4	4.0.3.0	4.0.3.0



7. Select the FW you want to update and then click on “Start flash” button 
8. Wait until all the Firmware files have been upgraded (You will confirmation from software)
Please note that currently on the panel you may get some fault warning during aux controller update (“Aux Controller” or “Pstn Communicator”).
Please wait, the system is considered fully working again when all possible FW update related faults are automatically restored.
Verify that running FW version is the updated one on “Panel” tab.

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FIRMWARE UPGRADE PROCEDURE USING USB PEN DRIVE:

1. Get updated Firmware packet from FireClass website (correct file name has "FWxxxxxx.BIN" format)
2. Get a **FAT** or **FAT32** USB Pen Drive
3. Create a folder named "**F_FW**" in the root of the USB Pen Drive
4. Copy the downloaded file into "**F_FW**" folder
5. Insert the USB Pen Drive on a working panel
6. Go into the "**1=Program**" Menu -> select option "**7=USB**" -> select option "**5=FW Upgrade**"
7. Wait until the panel comes back to the main page (the procedure takes a few minutes)

NOTE: The upgrade procedure may take several minutes to complete