

Technical Information	Date: 24.11.2025 Official: Hemke Department: BT-FS/MKP3
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Tech. Information No.	2684 / 2025
Subject:	New AVENAR panel firmware 4.7.0, New FPA + AVENAR panel firmware 3.5.5 and FSP-5000-RPS 5.14.17

Short description:	Support of new interface module FLM-430-I4R2 and the new battery controller panel module FPE-8000-BCM, with Panel FW 4.7.0 and FSP-5000-RPS 5.14.17. NEXOSPACE receives condition monitoring data, with Panel FW 4.7.0, from FWI-270, FLM-430-I2M1 and FLM-430-I4R2

Hardware <input type="checkbox"/>	<input type="checkbox"/> Device	<input type="checkbox"/> Module	<input type="checkbox"/> PCBA
Software <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Application	<input type="checkbox"/> Driver / Extension	<input checked="" type="checkbox"/> Firmware

Affected products (details)	CTN	SAP no.	Aff. version	New version
FPA-5000 & FPA-1200 Main Panel Controller	MPC-xxxx-C MPC-xxxx-B FPA-1200-MPC-C FPA-1200-MPC	all languages	3.5.4	3.5.5
AVENAR panel 2000 Panel controller	FPE-2000-SPC	F.01U.327.091	3.5.4	3.5.5
	FPE-2000-PPC	F.01U.352.443	4.6.0	4.7.0
AVENAR panel 8000 Panel controller	FPE-8000-SPC	F.01U.327.090	3.5.4	3.5.5
	FPE-8000-PPC	F.01U.352.441	4.6.0	4.7.0
Remote Keypad	FMR-5000 FMR-5000-C	all languages	3.5.4	3.5.5
AVENAR keypad 8000	FPE-8000-FMR	F.01U.327.092	3.5.4	3.5.5
			4.6.0	4.7.0
Remote Programming Software	FSP-5000-RPS	F.01U.005.615	5.13.24	5.14.17
FPA-5000-OPC Server	FSM-5000-OPC		3.0.0	3.0.2
FPA-5000-FSI SDK	FSM-5000-FSI		3.0.0	3.0.2
BACnet Server	FSM-8000-BNS		1.1.0	1.2.0

End-of-Service FPA panels and FMR keypads

Firmware version 3.5.5 will be the final version, before reaching the End-of-Service date on December 31, 2025. After this date, support including bug fixes and security updates will no longer be given.

Number of delivered devices		
Period of delivery	from:	to:
Affected serial numbers	from:	to:

Priority Level		Criterion
I	<input type="checkbox"/>	The change has to be made immediately (see dates below)
II	<input type="checkbox"/>	The change has to be made during the next inspection.
III	<input checked="" type="checkbox"/>	Change has to be made, if the error pattern recurs and with new installations.
None	<input type="checkbox"/>	General Information (like new tool, new feature, new SW release)

Action Plan	
<input checked="" type="checkbox"/>	Inform customers
<input type="checkbox"/>	Arrange re-work of stock (CSO)
<input type="checkbox"/>	Arrange re-work of stock (customer)
<input type="checkbox"/>	Arrange re-work of installed products
<input type="checkbox"/>	See detailed actions on following pages

Start Date		Completion Date	
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New Features:New features panel firmware:

Firmware version: 4.7.0

- Introduction of new LSNi interface module FLM-430-I4R2. The module has four inputs and two relay outputs. Summary of implemented use-cases and features:
 - o **Input configuration:** freely configurable, extended line monitoring according VdS2543, double and triple resistor monitoring. Next to 3k3/680Ohm, the interface module supports 3k9/820Ohm line monitoring
 - o **Control/Fire protection equipment:** 24V/230V fire, smoke and/or exhaust dampers with damper monitoring with feedback: Open/Closed/In-between. Clear fault message feedback for mechanical failures.
 - o **Door holder:** with(out) monitoring on a single input: Open/Closed/In-between. Clear fault message feedback for mechanical failures.
 - o **Extinguishing interface:** configuring standard extinguishing fault and activation feedback with configurable feedback time (3-60 seconds).
 - o **NAC/Signaling circuit:** 230V signaling devices, only be used as additional local alarm notification (no EN54 signaling devices)
 - o **VdS2540 compliant 4-Wire special conventional detector:** FLM-420-EOL4W configuration settings extended to add detector type and number of detectors, when FLM-420-EOL4W is used in combination with FLM-430-I4R2
 - o **Condition monitoring data:** Variables, like ID number, HW version, feedback time and resistor values are synchronized with NEXOSPACE.
 - o **Improved diagnostic dialogs:** clear text specification of the actual or last statuses.
 - o **Location:** Via the "LED ON" option in RPS, the device can be located as the red LED will be blinking during this time
 - o **Collect ID:** within RPS via command "Start collecting ID of LSN devices"
- Introduction of FPE-8000-BCM battery controller panel module. The following most important points are:
 - o AVENAR panel 2000 is limited to two FPE-8000-BCM
 - o AVENAR panel 8000 is limited to eight FPE-8000-BCM
 - o For each FPE-8000-BCM module installed in AVENAR panel 8000/2000, an energy zone is created in the RPS configuration
 - o FPE-8000-BCM can only be positioned on slot 1, 3, 7, 11, 15, 19, 23, 27, 31, 35 or 39 (when not having panel redundancy also 43 is allowed)
 - o The power consumption ends at slots 2, 6, 10, 14, 18, 22, 26, 30, 34, 38 or 42 (when not having panel redundancy also 46 is allowed)
 - o Total power consumption for each energy zone is displayed in RPS
 - o Enter installed battery capacity for each FPE-8000-BCM
 - o Enter battery autonomy time period [Standby time (h) and Alarm time (min)] for each AVENAR panel within a panel network
 - o BCM-0000-B and FPE-8000-BCM can't be mixed within one AVENAR panel
 - o Consistency checks to validate behavior
- Introduction of FPP-5000-IFM LSN communication interface module for FPP-5000
- Introduction of conventional device "FMX5000 IR 3GD" in combination with FLM-420/4-CON interface module
- Introduction of conventional device "Configurable safety barrier" in combination with FLM-420/4-CON interface module
- Transmission of FLM-430-I2M1, FLM-430-I4R2, FWI-270 condition monitoring data to NEXOSPACE
- FWI-270 locating via LED ON

New features FSP-5000-RPS:

- Introduction of panel account version 4.7 with panel networking exclusively for AVENAR panel 8000, AVENAR panel 2000 and AVENAR keypad 8000
- Support of panel FW 3.5.5 for panel account version 3.5 for panel networking mixed FPA-5000 and/or FMR-5000 with AVENAR panel 2000, AVENAR panel 8000 and/or AVENAR keypad 8000
- Introduction of FLM-430-I4R2 (from account version 4.7 onwards). Features listed above.
- Introduction of configuring 4-wire conventional detectors to FLM-430-I4R2 with FLM-420-EOL4W for VdS2540 compliance. FLM-420-EOL4W window is updated to support this feature
- Introduction of FPE-8000-BCM battery controller panel module (from account version 4.7 onwards). Features listed above.
- Introduction of section "Panel modules" for all account versions. When having account version 4.7 and having FPE-8000-BCM the energy zone(s) are displayed visually
- Introduction of FPP-5000-IFM LSN communication interface module for FPP-5000 (from account version 4.7 onwards)
- Introduction of conventional device "FMX5000 IR 3GD" in combination with FLM-420/4-CON interface module (from account version 4.7 onwards)
- Introduction of option "Configurable safety barrier" in combination with FLM-420/4-CON interface module (from account version 4.7 onwards)
- FWI-270 locating via LED ON (from account version 4.7 onwards)
- Visualization of panel modules and their panel slot incl. manually drag and drop panel modules for all account versions
- Introduction: Caution notice when opening account version 3.5. This firmware version reaches its end of service by December 31, 2025

Removed features:

- FSP-5000-RPS Windows 10 support. Microsoft ended its Windows 10 support on 14.10.2025
- FSP-5000-RPS Windows 11 22H2 and Windows 11 23H2 support. Microsoft ended their support (see <https://learn.microsoft.com/en-us/windows/release-health/windows11-release-information>)
- Ability to set RPS to Greek language
- FLM-420-RHV use as "Extinguishing interface VdS 2496 (1996)" option (available until account version 4.6, not available from account version 4.7 onwards). Please use FLM-420-RLE for this use case
- RPS: Text "DM210/SM210" removed from "DM210/SM210/FMC-210/FMC-420RW Manual call point" (from account version 4.7)
- NBM110/DM200 Manual call point (available in RPS 5.14.17 until account version 4.6, not available from account version 4.7 onwards)
NOTE: Unfortunately, with Panel FW 4.6.0, the NBM110/DM200 isn't working any longer. Therefore, with RPS 5.15 the device will be made available until account version 4.5 and not available from account version 4.6 onwards
- NIM100 Ionization detector (available until account version 4.6, not available from account version 4.7 onwards)
- NOM100 Optical smoke detector (available until account version 4.6, not available from account version 4.7 onwards)
- NTM100 Heat detector (available until account version 4.6, not available from account version 4.7 onwards)
- OM200 Optical smoke detector (available until account version 4.6, not available from account version 4.7 onwards)
- OT200 Combined smoke and heat detector (available until account version 4.6, not available from account version 4.7 onwards)
- TM200 Heat detector (available until account version 4.6, not available from account version 4.7 onwards)

Known issues:

- RPS: When having an AVENAR panel configuration, it might happen that no consistency check warning is shown when e.g., a function key has address 1 and an input 1/1 (TSEMEA-20331). Please manually make sure the function keys have a unique address compared with inputs.
- Every duration timer if used, for FLM-430-I2M1 and/or FLM-430-I4R2 as usage type NAC/Signaling circuit group activation, it must differ at least by one second, otherwise there is the risk that one or more groups do not deactivate. This can happen with any firmware version which has FLM-430-I2M1 and/or FLM-430-I4R2, when having two or more NAC/Signaling circuit groups with the same duration timer. Note: duration timer can only be used when the action isn't EN54 relevant.
- RPS: Unload node configuration on panel isn't working correctly. When loading a configuration with multiple panels and try to unload the configuration from a panel which is already loaded the configuration, it is best to close the configuration and reopen again.

Important information:

- Especially when the panel is network connected, it is advised to always use the latest firmware version with safety and security improvements.
- Account version 3.5 should be used when having FPA with FMR only (stand-alone) or FPA/FMR together with AVENAR panel and/or AVENAR keypad in a network. When using AVENAR only (stand-alone or in a network), please use account version 4.7.0 or higher.
- Keep in mind: Panel FW 3.5.5 is the final firmware for FPA-1200, FPA-5000 and FMR-5000.
- This is the last FW where Greek, Lithuanian and Slovenian can be selected as panel language. This means with Panel FW 4.8, planned for 06.2026, these panel languages will no longer be supported.
- This is the last FW version where following LSN devices are supported:
 - o ATx100 LED annunciator with 32 outputs
 - o FAP-O500 Optical fire detector (invisible)
 - o FAP-OC500 Optical/chemical fire detector (invisible)
 - o MSS400 Detector base sounder (2 Wire)
 - o MSS401 Detector base sounder (4 Wire)
 This means with Panel FW 4.8 onward, planned for 06.2026, the above listed devices aren't supported.
- Panel FW 4.8, planned for 06.2026, will be the last version where following devices are supported:
 - o NEV300 Power supply
 - o O400 Optical smoke detector
 - o OC410 Optical/chemical multisensor detector
 - o OT400 Optical/thermal multisensor detector
 - o OTC410 Optical/thermal/chemical multisensor detector
 - o T400 Thermal differential/thermal maximum detector
 This means with Panel FW 4.9 onward, planned for 12.2026, the above listed devices aren't supported.
- Panel FW 4.9, planned for 12.2026, will be the last version where following devices are supported:
 - o FLM-420-O2-D Output interface module
 - o FLM-420-O2-W/E Output interface module
 This means with Panel FW 4.10 onward, planned for 06.2027, the above listed devices aren't supported.

Solved issues:Correction and Technical Improvements panel FW:

Firmware version: 4.7.0

- Technical improvement: Added "Battery depassivation counter" on Diagnostic Screen FWI-270. FWI-270 must have FW 0.7.3 in order to see the counter
- UI change: pt-PT language replaced by pt-BR language. All Bosch documentation (like datasheets, manuals, installation guide etc.) is pt-BR based.

Firmware versions 3.5.5 and 4.7.0

- Technical improvement: Reduce Active Area of Foil Buttons to prevent false triggers
- Technical improvement: Defective FNM-420U sounder appear as fault (TI 2653/2025)
- Technical improvement: Ground short detection with LSN B-wire (TSEMEA-24520)
- Technical improvement: Panel timestamp sending to NEXOSPACE improved (ISO 8601)

Solved issues:**Correction and Technical Improvements FSP-5000-RPS:**

- Fixed: FLM-430-I2M1 Unable to change logical address when selecting NAC/Signaling circuit usage type (TI 2661/2025)
- Fixed: FLM-420-RHV resistor value can't be changed when relay is set to unused (TI 2661/2025)
- Fixed: FLM-420-RHV when use as "Extinguishing interface VdS 2496 (1996)", shows an input 5. This input is now removed, as FLM-420-RHV doesn't have such input. Same done for FLM-420-RLE
- Fixed: When adding a block of state dependent rule during bypass/block, RPS closes occasionally
- Fixed: Current consumption remote indicator value updated from 0.2mA per remote indicator to one-time 20mA, independent on how many remote indicators on the loop are configured (TSEMEA-17523)
- Fixed: Unable to open configuration window AVENAR keypad 8000 and FPA 5000 keypad. Was detected with 5.13.24 only
- Fixed: MPP export while colliding with LED address(es)
- Fixed: Counter and group sorting based on sequential order
- Fixed: Replacement FLM-420-NAC to FLM-430-I2M1 / FLM-430-I4R2 creates consistency check error, last element not set
- Fixed: RPS Crash when adding FLM-420-EOL4W to T-tap loop terminated with FLM-420-EOL2W
- Technical improvement: Exclude volume "0" consistency check appearing when it is a conventional NAC device. The consistency check might only appear when device is an FNX-425U Sounder, FNM-420-A-BS, FNM-420-A/B, FNM-420U-A-BS, FNM-420U-A/B, FNM-420V, MSS400 or MSS401
- Technical improvement: Time to configure a rule for control or set takes a long time to open window
- Technical improvement: Collect ID for FLM-430-I2M1 via command "Start collecting ID of LSN devices"
- Technical improvement: NZM 0002 A option to use rail power is set by default and greyed out. As well as AUX and battery power logical address and label setting (from account version 4.7 onwards)
- Technical improvement: NEXOSPACE Remote Assistant (BT-IE only)
- Technical improvement: Limit FLM-420-RHV use as "NAC/Signaling circuit" to 6 groups incl. consistency check for all account versions
- Technical improvement: Consistency check added for NAC/Signaling circuit groups where duration is set. EN54 requirement is that fire alarm devices can't be silenced automatically (EN54 requirement)
- Technical improvement: Restrict importing WinPara configurations having "100 or 200 series detector generation" when importing for account version 4.7 and above
- Technical improvement: Consistency check generates error when LSN 1500 A ground fault address is set to "0"
- Technical improvement: Consistency check when LSN devices set to NAC/Signaling circuit don't have a valid address assigned (logical address could disappear when shifting from one LSN bus to another)
- Technical improvement: Consistency check to validate if FLM-420-EOL4W is last device on T-tap LSN output. Installation manual strictly prohibits it
- UI improvement: Ethernet redundancy setting in polish language updated "w sekundach" to "(s)"
- UI change: pt-PT language replaced by pt-BR language. All Bosch documentation (like datasheets, manuals, installation guide etc.) is pt-BR based

Notes:

- FPA1200, FPA5000, AVENAR panel 8000/2000 firmware V3.5.5 is compatible with OPC server 2.0.25
- FPA1200, FPA5000, AVENAR panel 8000/2000 firmware V3.5.5 is compatible with FSI-lib 2.0.25
 - FPA1200, FPA5000, AVENAR panel 8000/2000 firmware V3.5.5 is compatible with FAT2002 V4.24.12.79
 - FPA1200, FPA5000, AVENAR panel 8000/2000 firmware V3.5.5 is compatible with IFAM system 4000 V01.03.06.00
 - AVENAR panel 8000/2000 firmware V4.7.0 is compatible with OPC server 3.0.2
 - AVENAR panel 8000/2000 firmware V4.7.0 is compatible with FSI-lib 3.0.2
 - AVENAR panel 8000/2000 firmware V4.7.0 is compatible with FAT2002 V4.24.12.79
 - AVENAR panel 8000/2000 firmware V4.7.0 is compatible with IFAM system 4000 V01.03.06.00
 - OPC/FSI 3.0.2 supported by Windows 11 on the host machine
 - FSP-5000-RPS V5.14.17 is supported by the following Windows operation systems:
 - Windows 11, 2024 Update (version 24H2) (64-bit)
 - Download all technical bulletins (TIs) and released firmware and software from the 'ST-FIR Tech Support' SharePoint (registered users only) or EMEA Extranet <https://www.boschsecurity.com/xc/en/extranet/fire-alarm-systems/>
 - When sending panel firmware and/or RPS software to customers ALWAYS make sure you send the complete .zip due to legal compliancy! This means never send single files from those zip archives and never rename the .zip!
 - From January 1, 2022 to December 31, 2025, panel firmware version 3.x is in maintenance mode. During this period, new versions will be released only containing fixes for critical bugs and critical security gaps. Panel FW 3.5.5 is the final firmware for FPA-1200, FPA-5000 and FMR-5000. No new versions will be released for these panels.
 - From January 1, 2022 onwards, new product features, new LSN peripherals, new GUI languages, and normative changes will be only available in firmware version 4.x. Firmware version 4.x is exclusively for AVENAR panel and AVENAR keypad.

Attachment(s)

BU Manager	Thomas Knauel	Clerk in Charge:	Tobias Hemke
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Distribution

Distribution BU FIR Fire Systems	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Gerhard Puechler (BT-FS/QMM), Michaela Weigert (BT-FS/QMM) <input checked="" type="checkbox"/> Thomas Knauel (BT-FS/MKP BT-FS/PJ-PG), Kristof Vandenberghe (BT-FS/MKP1), Bernd Harbers (BT-FS/MKP1), Soeren Wittmann (BT-FS/MKP1) <input checked="" type="checkbox"/> Ronald Marier (BT-FS/MKP3), Tobias Hemke (BT-FS/MKP3) <input checked="" type="checkbox"/> Josef Angstenberger (BT-FS/MKR-EU), Jakub Bednarz (BT-FS/MKR-EU BT-FS/MKA-EU) <input checked="" type="checkbox"/> Leonard Hew (BT-FS/SAM-AP2), Rajkumar A R (BT-FS/SAM-AP1), Leo Yau (BT-FS/STS-AP) <input checked="" type="checkbox"/> Renato Lima (BT-FS/SDM-LA), Jeisson Oliveros (BT-FS/SDM-LA)
Other parties affected	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Teleservice Support (SO/OPM3.8-Mb) <input checked="" type="checkbox"/> Petra Adelman (BT-IE/CTA-TER3), Johannes Beck (BT-IE/CTA-TER3) <input checked="" type="checkbox"/> Holger Behrens (BT-IE/SPM-SF) <input checked="" type="checkbox"/> David Ziegler (BT-IE/SPM-SF), Ines Schittenhelm (BT-IE/SPM1-SF), Martin van Driel (BT-IE/CNL7), Jaap Smit (BT-IE/QMM-NL), Productmanagement.sn1@nl.bosch.com (BT-IE/XSP-NL)