



TECHNICAL NOTE

3/13/2024

regarding product

PYRODIGITAL FM-A Firing Module

Topic:

Notification Regarding Pyrodigital FM-A Firing Modules and Electromagnetic Immunity

Dear valued Pyrodigital Client,

Herewith, we inform you of a recent finding regarding the electromagnetic immunity of the FM-A Firing Modules, an additional safety instruction hereto and the actions we are taking to further enhance the electromagnetic immunity of the devices as part of our ongoing efforts to maintain the highest standards of product safety and performance. Innovative Pyrotechnik GmbH emphasizes its dedication to the quality and dependability of our Pyrodigital FM-A Firing Modules, which are key to our premium brand identity.

In light of this, we urge you to adhere to the following:

Additional Safety Instruction supplementary to the Operating Instructions for Handling FM-A Firing Modules:

A minimum distance of 1 meter (approximately 3.3 feet) must be maintained at all times from handheld radios to the FM-A Firing Modules. Exclude the presence of strong broadcast transmitters and high-power RF antennas in the vicinity of the FM-A Firing Modules.



1. Report and safety instruction

In the immediate vicinity of radio antennas (in the so-called near field) extremely strong and concentrated electromagnetic fields can occur. We found that handheld radios operated in close proximity (below 1 meter) to the FM-A Firing Modules, especially in the frequency range of 100 to 200 MHz, have the potential of triggering unintended ignitions of electric ignitors (electric matches).

As part of our investigation hereto, we re-verified that the FM-A Firing Modules are within specifications, confirming the modules' resilience and dependable performance. The FM-A Firing Modules are designed and tested to align with the state of the art in safety and performance, ensuring they operate effectively under a wide range of conditions.

However, in order to minimize the risk of unintended ignitions of electric ignitors while operating the FM-A Firing Module, we urge you to adhere to the following:

In order to provide an additional layer of safety, a minimum distance of 1 meter (approximately 3.3 feet) from handheld radios must be maintained when using the FM-A Firing Modules.

This requirement for the FM-A Firing modules, specifically relating to handheld radios, is intended to enhance safety. If regulations or guidelines by public authorities impose stricter rules in this regard or dictate specific safety distances to avoid unintended ignitions of electric ignitors (electric matches) by radios, such regulations or guidelines take precedence and must always be strictly followed to ensure the safety of all operations involving electric ignitors and radios. Users of the FM-A Firing Module must consult and follow all local guidelines and regulations to ensure they fully meet all requirements. Thus, the additional safety instructions for the FM-A Firing Module provided in the present document serve as a supplement. We emphasize the importance of adhering to all other established safety standards as well.

Although current FM-A Firing Modules are within specifications, we developed an upgrade for existing FM-A firing modules to address the above findings as we always aim to improve our products:

2. Release of EMI Upgrade for the FM-A Firing Module

Our dedication to reliability and safety extends beyond the current state of technology. As part of our quality assurance commitment, we have developed an electromagnetic immunity upgrade (EMI Upgrade) for the FM-A Firing Modules. The EMI Upgrade will significantly reduce the effects of handheld radios on the FM-A Firing Modules. The EMI Upgrade will be released beginning of June 2024 and is designed for easy installation.

We are committed to providing comprehensive support to facilitate this process, ensuring a smooth transition with as little disruption as possible.



3. EMI Upgrade Kit Distribution

We will provide the EMI Upgrade kits, along with detailed installation instructions, to all our customers at no additional cost. This initiative underscores our commitment to the safety and ongoing excellence of our products and our customers' satisfaction.

4. EMI Upgrade Registration Process

To ensure a seamless upgrade process for your FM-A Firing Modules, we have included an **EMI Upgrade Registration Form** as Annex 1 to this Technical Note. Completing and returning this form is required in order to register your modules for the complimentary EMI Upgrade. We kindly ask you to fill out the form with the required information, sign it, and then scan and email the completed form to upgrade@pyrodigital.com. This process will enable us to provide you with the upgrade kits promptly and ensure that your equipment is updated with the latest enhancements in electromagnetic immunity. Your proactive participation is highly appreciated and pivotal in maintaining the highest standards of safety and performance for your Pyrodigital systems.

In conclusion, we appreciate your understanding and cooperation as we continue to enhance the safety and performance of our products. Further details regarding the upgrade process will be communicated in due course. Should you have any questions or require immediate assistance, please do not hesitate to contact our customer service team at upgrade@pyrodigital.com.

Thank you for your continued trust in Pyrodigital.

Sincerely,

A handwritten signature in blue ink, appearing to read "Joachim Berner".

Joachim Berner
CEO, Innovative Pyrotechnik GmbH



EMI Upgrade Registration Form

Pyrodigital is committed to providing the EMI Upgrade kits for the FM-A Firing Modules free of charge to enhance your system's performance and safety.

This form is an essential part of the upgrade process. Please complete this form to register your FM-A Firing Modules for the EMI Upgrade at no additional cost. Once filled, sign, scan, and email it to upgrade@pyrodigital.com.

Client Company Information:

Company Name: _____
Address: _____
City: _____ State/Province: _____
Postal/Zip Code: _____ Country: _____

Designated Technical Communication Contact:

Mr./Mrs, Surname, First Name: _____
Email Address: _____
Phone Number: _____

Delivery Address (if different from above) and Delivery Contact of the Company:

Address: _____
City: _____ State/Province: _____
Postal/Zip Code: _____ Country: _____
Mr./Mrs, Surname, First Name: _____
Email Address: _____
Phone Number: _____

Associated Distributor (if applicable):

Distributor Name: _____

Amount of FM-A Firing Modules for the EMI Upgrade:

Quantity: _____

Full Name & Position of Authorized Signatory (in capital letters)	Date and Place	Signature
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