



MPE
Quality, Reliability, Performance

Company Bulletin

for EMC, EMP & TEMPEST Protection

Issue 10



Commercial HEMP equipment filter



Commercial HEMP powerline filter

MPE's World first sets tongues wagging

In a World first, MPE launched at the EuroEM 2016 Conference at Imperial College, London, in July its ground-breaking new range of HEMP protection filters designed specifically to address the needs of the commercial market. Both powerline and equipment variants from the range were on display and generated a high level of interest throughout the event.

Prior to late 2015, only the very onerous Mil-Std-188-125 had been available to verify any installed HEMP protection system and, whilst it was widely accepted that the level of protection for commercial uses need not be as great as for military applications, the requirement to meet this military standard demanded filters whose performance, and therefore cost, could often far outweigh their practical requirement.

The publication in late 2015 of the new Standard IEC/EN 61000-4-24 ("Test Methods for Protective Devices for HEMP Conducted Disturbance"), which details two lesser Severity Levels – Industrial Level 1 and Critical Infrastructure Level 2, allowed for HEMP protection systems to be verified more exactly for their intended application.

In response, MPE's revolutionary new range of commercial HEMP protection filters was launched in order to directly address the threat to public utilities, telecommunications, transportation, computer networks, datacentres, control rooms, the emergency services and other key national infrastructure within the framework of homeland security.

The filters have been designed with just the same integrity and reliability as the existing wide range of MPE HEMP filters. However, from its long experience, MPE has been able to utilise alternative materials and manufacturing techniques, making the commercial HEMP filters a much more attractive and cost-effective option.

As the first and only manufacturer globally to have designed and developed a range of commercial HEMP filters to specifically meet the requirements of Severity Levels 1 and 2, MPE is already busy producing filters to fulfil advance orders.

MPE presented its commercial HEMP protection filter range at the 2016 ECNE (Energy Council of the North-East) Fall Engineering & Operations Conference which took place at Danvers, Massachusetts (www.ecne.org/events/calendar).

The session on October 27th entitled "The Threat to United States Critical Infrastructure from Electromagnetic Pulse (EMP)" provided an educational overview of the threat of EMP/HEMP and IEMI, what protection the current infrastructure offers, and what should be considered to better protect against potential threats.



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A panel of experts discussed what are EMP/HEMP and IEMI, the types of threats, shielding, filtering and monitoring.

You can download [here](#) the 12-page MPE product brochure "Commercial HEMP Protection Filters".

