PRESS RELEASE

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**E2S M series upgraded alarm horn sounders in IP66/67 Type 4/4X/13 enclosures**

E2S Warning Signals, global leader in audible and visual notification devices, has introduced the next generation of its M range industrial alarm horn sounders. The new [MA1F](https://www.e2s.com/product/13450) and the [MA2F](https://www.e2s.com/product/13451) employ the enclosure and mounting as previous MA112 and MA121 versions but now feature enhanced electronics containing the latest in D Class amplifier technology, with lower in-rush current, wider voltage range, lower current consumption and improved alarm tone choice and control.

The [MA1F](https://www.e2s.com/product/13450) uses a standard directional flare horn; the [MA1R](https://www.e2s.com/product/13452) features the innovative E2S ‘1R’ omni-directional horn that is particularly suitable for applications requiring a compact device. For higher sound output requirements, the new [MA2H](https://www.e2s.com/product/13453) alarm horn sounder utilizes the new E2S ‘2H’ super high output flare horn, which is engineered to maximize audible signaling performance across the widest range of frequencies at a sound level of up to 130dB(A). View the full specification details [here](https://www.e2s.com/product/13453).

The alarm horn sounder DC voltage range is now extended from 10 to 60VDC, and the AC versions have a universal power supply accepting inputs from 100 to 240VAC. Higher voltage DC versions are available on request. The MA1 versions are factory set to a low current consumption of only 224mA at 24VDC with a sound output of 117dB(A). The MA2 versions feature two user selectable power modes that provide the optimum combinations of current consumption and sound output: 391mA and 126dB(A) to 888mA and 130dB(A).

A total of four remotely selectable alarm stages/channels are standard and can be activated by a variety of methods. A new set of 64 alarm tone frequencies can be independently set as either first or second stage. Pluggable, duplicated cable terminals simplify installation.

Combined audible/visual units also benefit from the next generation sounder electronics - the [MC1X05](https://www.e2s.com/product/13387) with Xenon strobe beacon and [MC1LD2](https://www.e2s.com/product/13383) with high output LED.

All units feature robust, thermoplastic fire-retardant enclosures with 316 (A4) stainless steel mounting brackets – ideal for applications in harsh environments where Type 4/4X/13/3R IP66/67 protection is required.

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**Notes to Editors.**

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E2S is the world’s leading independent signaling manufacturer. Based in West London, England the company designs and manufactures a comprehensive range of signaling products for industrial, marine and hazardous area environments. E2S products are available globally via their distribution network, details of distributors are available on the company’s website. Additionally, E2S has a dedicated distribution hub in Houston, Texas for local product distribution and technical support.

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