n.FORM™

ENGINEERED SYSTEM SOLUTIONS FOR MASS NOTIFICATION AND EMERGENCY COMMUNICATIONS
Bringing reach and clarity to an all new level for mass notification systems

In certain situations and during emergency events the dissemination of information is key to life safety. Messages must not only be seen and heard – they must be understood. In designing a Mass Notification and Emergency Communications (MNEC) system, the key critical components are Reach and Clarity.

Reach is about coverage to 100% of the intended audience to inform and instruct. Reach can be visual and/or audible throughout the entire facility. Clarity is the degree to which the intended audience understands the message they are receiving.

A well designed MNEC solution will ensure that all intended audiences are well informed and directed to safety through any and all means possible.

About Our Engineered System Solutions

The Lencore n.FORM™ Engineered System Solution for mass notification and emergency communications provides a completely packaged solution for ease of use and installation. Using a branded enclosure, all of the system’s headend equipment is expertly assembled and ready for on-site installation. Optional equipment and accessories can be added for additional system scalability and functionality.

The n.FORM™ system provides robust zoning capabilities as well as prioritized levels for routine and emergency notifications. Tying together multiple floors, buildings, or even entire campuses, the system provides global and local audio and visual communications that can be controlled and monitored through its password protected network interface.

Incorporating a variety of communication platforms including speakers, horns, strobes, sirens, digital signage, text messaging and email, n.FORM™ provides clear messaging that reaches occupants throughout a facility, in other buildings, across a parking lot and around the world. The scalability of this engineered system solution is designed to integrate with existing installed systems as well as with new technologies.
n.FORM™ Features
+ One point of network control for total system access, viewing and monitoring
+ System redundancy for complete operability
+ Detailed diagnostics and reporting
+ Local / Global prioritized paging
+ Complete system integration with visual and audio devices
+ Pre-recorded messages for potential events
+ Tiered levels of notification for local and global connectivity

n.FORM™ Advantages
+ Requires no proprietary software or cabling
+ Open platform system design
+ One control point for total access
+ Ability to create groupings of sources and channels to let you customize an almost limitless amount of zones for notifications
+ Meets NFPA72 requirements
+ Preventative maintenance and service available
+ Full warranty

n.FORM™ Integration
n.FORM™ is designed on an open-platform design that makes integrating and interfacing with other control platforms and protocols simple. In addition, on site adjustments can be made through an iPad application or via a Crestron® or AMX® control pad interface. Control has never been faster, easier or more cost effective.

A mass notification and emergency communications solution is only successful if the audience understands the message and is directed quickly and clearly to safety.
Scalable. Intuitive. Intelligent.  
WITH LENCORE, IT’S ALL IN THE BOX  

For ease of use, Lencore’s n.FORM™ Engineered System comes as a completely packaged solution. Included within the enclosure are all of the key components required for a robust Mass Notification and Emergency Communications system.

The Headend Equipment Includes:

- n.FORM™ Engineered System Solution with enclosure for wall mounted applications.

The three RU drawer offers a rack mounting option for system installation of the n.FORM™ headend equipment.
The n.FORM™ Engineered System Solution is fully assembled in a branded enclosure that creates a professional, organized and accessible space for the headend equipment.

The Smart Switch creates system redundancy for paging, audio and network controls with reporting features.

The system's web server controls the network and provides flexibility to access the system, monitor settings, manage zones and make other changes from virtually anywhere — on-site, off-site, or around the world. This robust network operates on an open platform and provides one point of access for up to 1.5 million square feet of space.

The system is fed by a dedicated 110v outlet. Integrated surge suppression and power supplies can also be housed within the enclosure.

The microphone pre-amp with AGC (Automatic Gain Control) adjusts line level inputs for mic and audio to ensure a crystal clear signal.

The system can also include adaptive equalization to automatically compensate for frequency line loss across the wiring of the entire building to ensure the clearest, most intelligible page possible.

The web server allows integration to building control system's IP, RS232 and contact closures.

The web server also enables the system to trigger email, email to text & tweet messages for real time reporting.

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The Free Topology Terminator enables the network to travel in any loop or star configuration.

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The n.FORM™ system has the option to include a local and global MPI to create multiple building paging with programmable prioritization of input and paging devices.

The MPI (Music Page Interface) replaces all of the bulky headend equipment typically associated with music and paging systems. The MPI has the ability to set up 99 individual zones, including zone overlap, for paging and emergency paging.

The Record, Audio, MPEG Player (RAMP) can provide up to 58 independent, pre-recorded messages, reducing human error to deliver clear and consistent messaging.

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The Jordna Hub ties multiple facilities together.

The n.FORM™ system has the option to include a local and global MPI to create multiple building paging with programmable prioritization of input and paging devices.
Following the flow of the n.FORM™ MNEC System

The n.FORM™ Mass Notification and Emergency Communications System relays messages throughout your entire building with reach, clarity and sound quality.

Built-in fail-safes enable messages submitted through the system to be directly routed and in the case of a break in the system line, a redundant signal reverses signal direction to ensure message delivery.

Real time reporting features enable users to gather data and information to provide system intelligence.
Quality Systems Start With Well Thought Out Designs That Address Reach, Clarity, Redundancy & Reporting

Every n.FORM™ system is designed to incorporate specific requirements for the facility it is serving. The systems include a variety of customizable features and capabilities to ensure the messages are delivered intelligibly and at the right volume level in real time to all appropriate delivery points and intended receivers.

REACH & CLARITY

To do this and to provide coverage to 100% of the intended audience, the overall space is reviewed and evaluated to consider each Acoustically Distinguishable Space (ADS) in order to define the appropriate zoning requirements for the client’s facilities. Identifying and understanding the local and global communication needs of the organization plays a vital role in the design strategy.

A variety of visual and audio delivery methods can be customized into the design and integrated to ensure that messages are seen and heard clearly. Audio coverage utilizes audible devices such as upward-firing, direct-fired and specialty speakers and horns for both overhead and loud speaker paging. Speaker design always considers and accounts for the necessary volume fluctuations the system must meet. *

In addition, to further help occupants understand where to go for safety, visual coverage can be customized using a number of platforms including:

+ Digital Display  + Signage  + Email
+ Text Alerts  + Strobes  + Light Bars

The system can be designed to be triggered via dry contact closures and interface with:

+ Fire alarm systems  + Telephone inputs
+ Microphone inputs  + Pre-recorded messaging

* The National Fire Protection Agency (NFPA) code requirements require that volume levels for the public address system be 10 to 15 decibels above the ambient background noise. To further maximize the accuracy of the system’s intelligibility, n.FORM™ adheres to the appropriate speech transmission standards for public address systems (STIPA).
System Redundancy, Reporting & Pre-Recorded Messaging

The technology built into every n.FORM™ system provides system redundancy, a critical concept in order to ensure continuous system operability. This fail-safe enables the system to automatically reroute all messages should a break in the data transmission for the systems audio or visual messaging be interrupted.

Reporting capabilities for the system provide real time notifications should the system be tampered with, fall off-line or if the integrity of a system component is compromised. Alert messages are automatically triggered so that issues can receive immediate attention and be resolved.

Another feature of the n.FORM™ system is its ability to deliver pre-recorded messages locally and globally to any of the programmed zones whether within a single facility, a campus or through a network of buildings. In addition, the system’s prioritized paging capabilities allow for tiered levels of notification to make sure that critical announcements override routine or informational communications.

At Lencore, we believe that technology, when harnessed correctly, can generate data that provides information and intelligence.
What’s Outside of the Box?

The n.FORM™ System can receive telephone/microphone inputs, music or other audio source inputs, fire alarm triggers and interface with other control platforms.

<table>
<thead>
<tr>
<th>Audio Inputs</th>
<th>Visual Outputs</th>
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<tbody>
<tr>
<td>+ Telephone</td>
<td>+ Strobes</td>
</tr>
<tr>
<td>+ Music</td>
<td>+ Digital Signage &amp; Light Bars</td>
</tr>
<tr>
<td>+ Microphone</td>
<td>+ Text Messaging*</td>
</tr>
<tr>
<td>+ Fire Alarm</td>
<td>+ Email</td>
</tr>
<tr>
<td>+ Other Audio sources (ex: Sirius, Mood Media, Pre-recorded Messages, etc.)</td>
<td>+ Specialty Units Junction Box Tripod Inverted</td>
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The n.FORM™ System communicates and distributes information through a wide variety of standard and specialty speakers.

The unique aspects of the n.FORM™ system enable it to relay messaging over a variety of visual outputs to further promote life safety and directional communication.

*Note: Text messaging notifications rely on owner’s email server.
Wide Dispersion Plug & Play Speakers

Typical speakers are housed in aluminum with galvanized perforated grills and lightweight mounting chains. Custom painted speakers are available for a slight upcharge. A variety of speakers are available to suit nearly every site condition and ensure a clear, consistent message is relayed to reach 100% of the intended audience. Offering the highest quality speakers with the widest dispersion n.FORM™ provides many options to customize your audio distribution to suit any site condition.

Decorative speakers are ABS plastic and come with mounting bracket for easy wall or surface installation.

Most speaker models are available in 6” and 4” heights and specific models are available to address local and code requirements.

Access, Configuration & Control

The entire n.FORM™ line of products can be accessed, configured, controlled and monitored through a private, password protected user interface. The configuration software manages all system settings and zoning. From your browser, changes and adjustments can be made quickly and easily to your system for expansion and scalability.

The system’s software can also run diagnostics and reporting including a self-check for system status.

Service Contracts Available

Peace of Mind. As part of the management of your safety strategies, we offer ongoing managed service contracts. The contracts provide quarterly system diagnostics to ensure optimal functionality as well as product and software updates and upgrades.
Founded in 1990, Lencore has a long history of providing innovative systems for sound masking, paging, background music and mass notification. Our advancements in sound quality, audio distribution, software and networking solutions have propelled Lencore to industry leadership. We are proud that our products are manufactured in the USA and offer an unparalleled 10 year warranty.

Contact Lencore for more on our Engineered System Solutions for speech privacy, comfort and emergency communications, Preventative Maintenance and Service Contracts, Dealer Programs, GSA Offerings, LEED Credits and other capabilities.

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