i.Net
MUSIC PAGE INTERFACE (LOCAL/GLOBAL)
MODELS G505L/G505G

FUNCTION

Lencore's Local Music Page Interface (MPI) allows for priority paging and replaces all the bulky head end equipment that is typically associated with music and paging systems. When connected to Lencore's .Net System, programming can be set for up to 1.5 million square feet. The MPI allows the ability to use up to 99 individual zones for paging, using standard DTMF tones. The system is also programmed for all-call emergency broadcast paging.

Utilizing a client's existing telephone system (with open ports across multiple buildings), the Global MPI allows a user to send an all-call page to every connected building at once. This allows real time communication for company or campus wide announcements. However, in the case of a localized emergency the system's tiered paging provides for a top priority, emergency microphone page override per station

The unmatched capabilities of the Global/Local MPI combination allows for crystal clear broadcasts and emergency communications, regardless of whether the facilities are located across the street from each other, across the country or around the world. When used with Lencore's i.Net System, the user friendly web interface allows for secure 24/7 access to the system and the ability to view system settings, set timed events, and run system diagnostics from virtually anywhere

The creation, modification, addition and deletion of zones or groups for paging and masking can be easily controlled through the Lencore System Manager. No proprietary software needs to be installed on the client's side, eliminating security and migration issues. i.Net is an open platform system. In addition, volume and equalizer settings for paging and music can be programmed through the System Manager or i.Net Reports offering tremendous adjustment andcontrol capabilities with unprecedented flexibility. Adaptive Equalization: The unmatched capabilities and superior paging quality of Lencore's system automatically compensates and readjusts for frequency line loss while ensuring a quality signal that is continuously and uniformly broadcast and distributed throughout the entire system. Essentially this means that throughout the miles of audio wire, line loss will be virtually negligible. This results in a crystal clear page whenever you need it, wherever you are in your facility.

The MPI unit typically installs in the Telephone or IT closet. The MPI accepts a POTS line for all-call and zoned telephone paging. In addition, there are left and right audio inputs for music, all-call page, microphone input and testing input.

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PAGING VOLUME ADJUSTMENTS

+ Individual channels
+ Maximum output – 5.3 Volt RMS at speaker terminal
+ Attenuation range – 48 dB, in 1 dB steps, plus a mute setting

PAGING ZONES

+ Individual channel, groups or global paging zones Point Z™ Technology (Each channel can carry 10 programmable zones)

PAGE TEST SETTINGS

+ Service Button 1 - sends test audio files over page lines

LED GUIDES FOR VOLTAGE INPUTS

On back of MPI unit there are two potentiometer to adjust audio and voltage inputs for both paging and music. The LED displays on the front of the unit provides visual confirmation that voltage are in range.

+ LED's 1 (Page) -
  - No Light: No input
  - Yellow light: Tel/Audio input too low
  - Blue Light: Good
  - Red Light: Hot
+ LED's 2 (Music) -
  - No Light: No input
  - Yellow light: Tel/Audio input too low
  - Blue Light: Good
  - Red Light: Hot

PAGING/MUSIC VOLUME ADJUSTMENTS

Independent channels
  - Maximum output – 5.3 Volt RMS at speaker terminal
  - Attenuation range – 48 dB, in 1 dB steps, plus a mute setting

EMERGENCY BROADCAST/MUSIC ZONES

+ Individual channel, groups or global music zones

PAGING/E.B./MUSIC OCTAVE EQUALIZER

+ One page/music equalizer for all channels
+ 10 bands, 31 Hz to 16 kHz, each user adjustable by ±5 dB in 1 dB steps

POWER SUPPLY

+ Input from building power – 100-240 VAC,, 50-60 Hz, 1.0A

DIMENSIONS

+ 6" x 8 3/8" x 1 7/8"

ELECTRICAL SPECIFICATIONS

+ Input voltage – 7.5 Volts DC
+ Input current – 333 milliamps DC
+ Power usage – 2.5 Watts
+ Power jack – Mates with 2.1 mm inner
    - 5.5 mm outer
    - 11 mm plug length
+ On/Off slide switch

TELEPHONE PAGE USAGE

+ Lift telephone receiver
+ Dial access code – (*) = Backspace
+ Wait for short dial tone
+ Dial two digit paging zone number and the # key or
+ Dial 00# for all call page
+ Wait for short beep
+ Issue page
+ Hang up – (*) = Hang up after zone is dialed

INPUTS

+ LonWorks® network. Connects to i.LON®100 Internet Server. Screw terminals.
+ Audio/Mic input - Microphone input allows stationary mic to be used for MPI input - Dry contact switch allows use to override telephone input
+ Dry Mic Contact Switch - Sends all call page to OP's when closed (overrides tel input). All call off when relay is open
+ Audio/Mic-Tel Switch - Switches between inpus (dry contact overrides swtich)

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PAGE

POTS line telephone input. RJ11 connector
1. 2 wire (tip and ring) analog appearance
2. Configured to be loop start
3. Battery voltage is 48 volts
4. Loop current is 23 milli amps
5. Must have DTMF signaling capability
6. Must have hang-up (winking) supervision

STEREO/MUSIC

+ Left channel, 10k ohm input impedance, unbalanced, single ended RCA jack (phono connector)
+ Right channel, 10k ohm input impedance, unbalanced, single ended RCA jack.

Note: Left and right channels are combined to form one music input. All music inputs using the RCA jacks are single ended inputs.

RECOMMENDED SETTING OF INTERNAL POTENTIOMETER OF MUSIC INPUT

+ USA professional audio, +4 dBu, 1.228 Vrms
  10 o'clock position (approximate)
+ Consumer audio, -10 dBV, 0.316 Vrms
  3 o'clock position (approximate)
+ Tungsten T3 PDA,
  5 o'clock position (approximate)
+ Ipod,
  3 o'clock position (ipod volume set to 3/4)
+ 1 Vrms signal generator,
  10 o'clock position (approximate)
+ 0.7746 signal generator,
  11 o'clock position (approximate)

Ex: Set POT to min if input is 1 Vrms
 Set POT to max if input is .25 Vrms
*Do NOT exceed 1 Vrms input

OUTPUTS

+ Cat5e data cable, RJ45 connector. Connects to OP's
+ Page output, pins 4 and 5 of RJ45 is a balanced output
+ Music output, pins 7 and 8 of RJ45 is a balanced output
+ Two ground (common) screw terminal block. Connects to (-), ground, of first OP

INSTALLATION INSTRUCTIONS

A connection from the phone system to the MPI is required. This connection would come from either the phone system headend (PBX) or from a foreign exchange station (FXS) port. This connection will provide the MPI with the signal needed to tie the two systems together.
The MPI would then be assigned an extension. The extension assignment will allow a call to be placed to the MPI from any phone on the system and the page can be made.

Following are the requirements for the connection.
Here is the basic specification for a POTS line:
A Central Office (CO) POTS line is a 2-wire analog appearance.

+ It is a 2-wire (Tip and Ring) analog appearance.
+ It is configured to be a loop start.
+ Battery voltage is 48 Volts.
+ Loop current of 23 milli amps.
+ Must have DTMF signaling capability.
+ Must have hang-up (winking) supervision.
A Foreign Exchange Station (FXS) card or an Analog Telephone Adapter (ATA) card is required.

PLEASE NOTE: You cannot use a Foreign Exchange Office (FXO) card. Assign an extension to the port. Calling that extension will get you into the paging system

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FEATURES AND BENEFITS

+ Local paging via telephone - up to 100 zones
+ Global input for multi-building, campus wide paging
+ Mic or canned announcement input to override for emergency notification
+ Service buttons #1 and #2 allows for full test for page continuity over entire system
+ Music input to easily play music over system or zone
+ AGC (Automatic Gain Control) implemented to ensure quality paging
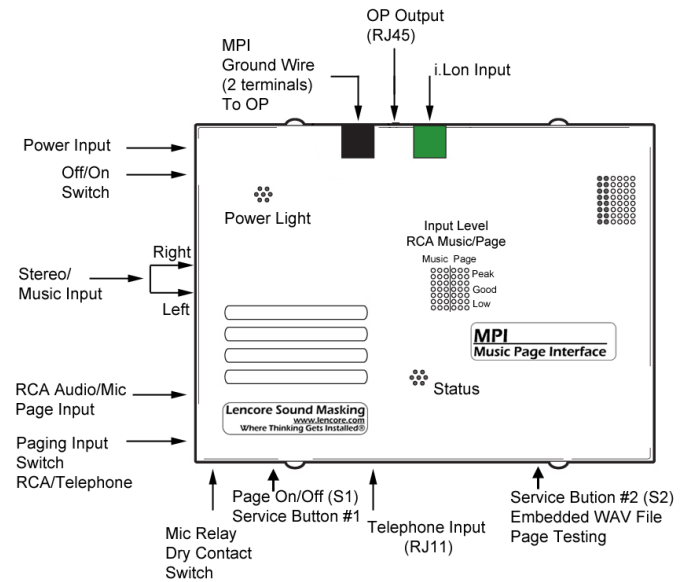
+ Variable input control for music and RCA Audio/ Mic Paging input with LED metering for proper input voltage
+ LED display on front displays input levels as low, hot or good
+ Variable input controls and metering capabilities ensures clean input and quality connections

OP Output (RJ45)
MPI Ground Wire (2 terminals) To OP
i.Lon Input
Power Input
Off/On Switch
Power Light
Input Level RCA Music/Page
Music Page
Peak
Good
Low
Right
Stereo/ Music Input
Left
MPI Music Page Interface
RCA Audio/Mic Page Input
Lencore Sound Masking www.lencore.com Where Thinking Gets Installed®
Status
Paging Input Switch RCA/Telephone
Page On/Off (S1) Service Button #1
Mic Relay Dry Contact Switch
Telephone Input (RJ11)
Service Bution #2 (S2) Embedded WAV File Page Testing

Music Input Volume Adjust
RCA Page Input Volume Adjust

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