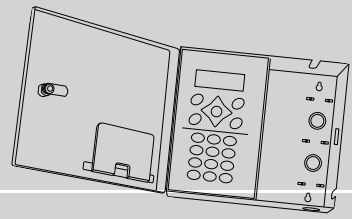


Network Control Panel

NCP-2



The Control Panel is the Network's only centralized component. It provides the control, flexibility and functionality of numerous rack-mounted components, reducing costs, energy requirements and the space needed for audio equipment.

The Network Control Panel allows the user to program all Network functions from a central location. Commands can be sent to one, a group or all Primary Hubs on the Network. The Primary Hub then controls the output of the Loudspeaker attached to it and that of the Loudspeakers attached to the Secondary Hubs.

The Control Panel is the Network's only centralized component. It provides the control, flexibility and functionality of numerous rack-mounted components, reducing costs, energy requirements and the space needed for audio equipment.

Network settings, such as volume and equalizer levels for masking and paging, timer, paging and keypad zones, timer schedules, and paging channel selection can be easily and conveniently established, reviewed or changed without entering the ceiling. The Network uses non-volatile memory so that settings are preserved in the event of a power failure.

Each Panel can control up to 125 components, including up to 25 Programmable Keypads. The Control Panels can also be networked together so that the user can control up to 99 Panels from a single PC using Acoustic Network™ Manager software.

Zoning

The Control Panel enables the user to establish independent paging, timer and keypad zones. Hubs are selected and assigned to a group (or zone), which is then named and assigned unique characteristics. Each Control Panel provides three paging zones, as well as an "off" zone, nine timer zones, in addition to an "off" zone, and up to 25 keypad zones. There are no restrictions on the size of these zones and they can be non-contiguous. A single cable between the Network Control Panel and the hubs can provide hundreds of zones.

Paging & Music

The Control Panel accepts up to three paging inputs, which are multiplexed and distributed over the Network. Each Primary Hub can be programmed to play any one of the three channels.

Volume

No amplifiers are required between the audio source and the Control Panel because each Primary Hub features an integrated amplifier. Volume adjustments for each Primary Hub are made from the Control Panel. Masking and paging volume adjustments are independent and can be made in precise 0.5 dBA increments over a range of 35 to 85 dBA. The masking or paging volume can also be set to zero in areas that only require one or the other.

Equalization

The Network offers DSP-based, 1/3-octave equalization for masking and 1/1-octave equalization for paging at each Primary Hub. A wide range of pre-set equalization profiles are available and can be modified as required. Such fine-tuning capabilities allow the user to customize the masking curve to suit the space, increasing the effectiveness of the masking sound.

Timer Functions

The Control Panel features an advanced, calendar-based timer utility that allows the masking settings to be programmed to accommodate varying levels of office activity. Different masking volume schedules can be established for each day of the week and for individual days during the year when unique schedules may be required, such as holidays. Volume changes are made at a user-defined rate, with gradual transitions between events. There is also an introductory acclimatization or ramp-up feature for retrofit installations, which gradually increases the masking volume over a period of 15 days. The ramp-up period can be programmed to begin on a defined date. The Control Panel automatically adjusts for daylight saving time.

Priority Paging

The Control Panel also features a priority page input. When a priority signal is relayed to the Control Panel, it sets the volume to a pre-programmed level and plays the announcement over all Loudspeakers. The LogiSon Network Administrator can set the masking to either continue to run or to mute during the priority page. Once the priority page is complete, the Network returns to its original settings.

Security Features

A key is required to open the Control Panel's enclosure and access the keypad. A password is required to access and program the Network settings. The Control Panel also features two integrated alarm relays, which can be connected to warning lights, sirens or security systems.

Ethernet Connection

Ethernet communication between a PC and the Control Panel enables adjustments using Acoustic Network™ Manager software. The user-friendly software provides all of the Control Panel functions, as well as an expanded range of adjustment options due to the ability of the PC's large screen to display more information simultaneously. The software can also be utilized for diagnostic and record-keeping purposes.

Third Party Control

The Control Panel can also be controlled using third party systems.

“The advantages of centralized, networked control of individual speakers, digital accuracy and ease of future reconfiguration or expansion ensure that this latest generation of sound masking technology will keep pace with the ever-changing workplace.”

Ericsson Canada Inc.

Manager of Facilities & General Services



Control Performance

Functions	Control Panel setup, Network setup, masking, paging, timer, keypad settings, audio inputs, and diagnostics
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Masking Performance

Volume	35 to 85 dBA, 0.5 dBA steps, mute
Equalization (w/ PC)	1/3-octave, 23 bands
Preset Contours	50 options

Paging Performance

Audio Input Modules	3, any combination of auxiliary, telephone and/or microphone
Zone Configuration	Zone 1, 2, 3 or none (per Primary Hub)
Volume	35 to 85 dBA, 0.5 dBA steps, mute
Equalization (w/ PC)	1/1-octave, 8 bands
Preset Contours	50 options

Timer Performance

Number of Zones	1 to 9
Size of Zones	Unrestricted
Timer Schedules	Unique schedules for each weekday
Volume Changes Per Day	9
Rate of Change	0 to 9 minutes per increment
Volume Increments	0.5 dBA steps
Masking Acclimatization	1 to 15 days, user-defined schedule, option of 0.5 or 1 dBA steps
Exception Schedules	3 user-defined exception schedules; up to 30 exception dates
Delayed-On Feature	Yes
Daylight Savings Adjustment	Automatic; option of preset international or user-defined schedule

Network Size (Per Control Panel)

Max. # of Network Components	125, including a maximum of 25 Programmable Keypads
Max. # of Loudspeakers	375

Connections

Power Input	3-pin, screw terminal
Network Output	6-pin
Ethernet Connection	10 Base-T RJ-45
Audio Inputs (3)	3-pin, screw terminal
Priority Page	2-pin, screw terminal

Power

Relay Outputs (2)	2-pin, screw terminal
Input	40 Vdc
Output	40 Vdc
Consumption	0.3 A Max or 12 W
Ground	Earth ground

Battery

Size	½ AA
Voltage	3.6 V
Life Expectancy	10 years

Physical Specifications

Dimensions (W x H x D)	28 x 23 x 7.6 cm; 11 x 9 x 3 inches
Enclosure Material	Steel with powdercoat finish
Color	Charcoal grey
Weight	5 lb; 2 kg
Keypad	20-key membrane panel
Display	4 x 20 backlit LCD

Mounting

Methods	4 keyhole mounting positions
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Security

Physical	Key-lock enclosure
Electronic	Password required to access settings; 2 levels