

# Multi-Graphic<sup>®</sup> Desktop Control Center

## Model SI35A



### Features

- Cost-effective communication for 25 to 75 rooms
- Color-coded guidelines for easy operation
- Instant EMERGENCY and ALL ROOMS announcements
- Remote emergency paging capabilities
- 20-watt intercom; separate 35-watt program channel
- Provision for time signalling, telco and voice call-in

### Description

To meet the increasing demand for fast, reliable, and efficient intercommunication in small to medium-sized schools, Bogen has developed the SI35A Desktop Control Center. Incorporating the major features of Bogen's larger custom-engineered school systems in a cost- and space-saving design, the SI35A provides a 20-watt intercom amplifier to permit instant intercommunication with any speaker-equipped location, and a separate program amplifier for simultaneous distribution of program material to other rooms or locations. The system also features an emergency page capability for emergency announcements to all stations at once.

The SI35A can be furnished with 1, 2 or 3 room selector panels (each with 25 switches), to accommodate up to 25, 50, or 75 rooms. Step-by-step instructions and color-coded guidelines, permanently printed on the control panel, allow easy operation, even by first-time users.

The SI35A provides complete facilities for distributing a variety of program materials from optional equipment such as microphones, cassette tape player-FM/AM tuner, or other source. Selection of program material, as well as its distribution to selected rooms is accomplished with simple push-button program selection and by following the color-coded guidelines. The powerful program amplifier provides 35 watts RMS to ensure that program material and emergency announcements are clearly heard and easily understood.

Facilities for aural and visual monitoring of program material, as well as level controls, are provided. Provisions are included to transmit a time tone for classroom changes, etc.

Emergency announcements to all classrooms are accomplished with a single push button. These announcements take precedence over all system functions and are transmitted at a predetermined level. Provisions are included to permit emergency paging from a remote telephone, interphone, or microphone.

Teachers converse hands-free with the control center operator over their individual classroom speaker. Calls to staff locations are announced by a supervisory tone signal, which repeats at regular intervals to indicate that the channel is open and the room is being monitored. Classrooms can be equipped with call-in switches to call the control center. Call-in switches can include classroom privacy control to positively prevent monitoring. Provisions are included for voice call-in.

Modern functional styling permits the installation of a cassette tape player-FM/AM tuner when system capacity does not exceed 50 stations. The SI35A operates from a 120V AC, 60Hz source, and consumes no more than 100 watts. An auxiliary power receptacle is provided for accessory equipment. The unit is enclosed in a sturdy desktop cabinet, and finished in an attractive simulated walnut veneer.

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## Architect and Engineer Specifications

The school communication Control Center shall be a Bogen Model SI35A, or approved equivalent. The Control Center shall be engineered for optimum simplicity of operation, made possible by the use of function-identified push buttons with associated color-coded guidelines, and supported by step-by-step instructions printed on the front panel.

Communication Control Centers, which are difficult to operate and do not provide push-button operation, color-coded guidelines, and operating instructions permanently printed on the panels shall not be considered. The Control Center shall provide at least the following features and functions:

1. Direct two-way voice communication between the Control Center and any classroom or speaker-equipped location, with simultaneous distribution of program material or voice announcements to any other classroom or location.
2. Distribution of voice announcements from the Control Center to any or all speakers.
3. Facilities for automatically sounding a supervisory tone signal over any loudspeaker selected for two-way communication, to alert the teacher to the call, and to prevent unauthorized monitoring. The tone signal shall sound whenever the classroom is being monitored and shall repeat at regular intervals.
4. Distribution of program material to any or all classrooms.
5. Ability to transmit a program or announcement simultaneously to all classrooms by simple operation of a program source push button and the ALL ROOMS push button.
6. Separate inputs for two low-impedance balanced microphones and one high-impedance auxiliary program source (cassette tape player/tuner, etc.). Program source selection shall be accomplished by simply pressing the appropriately labeled push button.
7. Aural and visual monitoring of all program material.
8. Facilities for voice call origination to the Control Center from any classroom equipped with a voice call origination switch.
9. Facilities for annunciator call-in to the Control Center from any classroom equipped with a call origination switch. (Note: Specify Bogen CA10A Call Switch for this feature.)
10. Facilities to positively prevent the Control Center from monitoring any classroom whose call origination switch is in the Privacy position. (Note: Specify Bogen CA11A Call/Privacy Switch for this feature.)
11. Provision for the instantaneous distribution of emergency messages from the Control Center to

all locations equipped with loudspeakers, simply by pressing a single, red push button. This action shall override all other programs and bypass all other controls. The emergency message shall be transmitted at a predetermined level.

12. Provision for an optional emergency page feature which shall permit emergency announcements from a remote telephone, interphone, or microphone to all locations equipped with loudspeakers.
13. Classroom call origination with light annunciation and tone signal at the Control Center. Call origination shall require only a momentary depression of the call-origination switch, which shall activate a repetitive tone signal and light the annunciator lamp associated with the calling classroom. The annunciator lamp shall remain lit until the call is answered and then be automatically cancelled.
14. Provision to optionally distribute a classroom change signal to all speaker-equipped stations.
15. Functionally-identified push buttons and color-coded guidelines for each function of the Control Center. The intercom channel shall be identified by green guidelines. The program channel shall be identified by amber guidelines. The emergency page push button shall be red.
16. Provision to include an optional cassette tape player-FM/AM tuner. (Note: Specify Bogen Model CR100A and RK78 mounting kit. Uses 2 rack spaces.)

To fulfill the above requirements, a Bogen Model SI35A, or approved equivalent Control Center shall be used, meeting the following technical requirements:

It shall be all solid-state and designed for continuous duty service in institutional and industrial applications on line voltages of 120 volts, 60Hz AC, over a temperature range of 0°F to 130°F. Power consumption of the MCP35A control panel, at rated output, shall not exceed 100 watts.

It shall include two separate amplifiers. The program amplifier shall be capable of producing 35 watts RMS at less than 1% distortion at rated power and bandwidth. The frequency response shall be within +1, -3dB from 80Hz to 15kHz. The intercom amplifier shall have an output rating of 20 watts RMS; frequency response shall be shaped for maximum intelligibility. Both amplifiers shall have a balanced 25-volt line output.

It shall include inputs for two Lo-Z balanced microphones, one Hi-Z unbalanced aux input, telephone paging accessories, and booster amplifier. Terminals shall be provided for the time signalling and telco page (activation) features.

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## Architect and Engineer Specifications, continued

It shall provide all controls necessary for two-way intercom communication with any classroom, distribution of general announcements or program material to any or all classrooms, and transmission of emergency announcements to all classrooms. Provisions shall be included for optional emergency paging from a remote telephone, interphone, or microphone.

Complete facilities for aural (monitor speaker) and visual (LED) monitoring of all program material shall be provided.

It shall include three-position (Program, Off, Intercom) room selector switches and associated LEDs, and PRESS TO TALK, ALL ROOMS, and EMERGENCY PAGE push buttons. The EMERGENCY switch shall gather all station lines to permit single push-button distribution of announcements to all speaker locations. Similarly, the ALL ROOMS switch shall permit single push-button distribution of program material to all speaker locations, except for those on the intercom channel.

It shall include facilities for voice-call origination from classrooms and for selective classroom privacy; the latter shall prevent the Control Center from monitoring any classroom whose call origination switch is in the Privacy position.

The Control Center shall measure 12"H x 20-1/2"W x 11"D (stands about 13-1/2" high). The cabinet shall be constructed of sturdy material and finished in simulated walnut veneer; control panels shall be finished in black. Shipping weight shall be 35 lbs.

(Also include all program source equipment, classroom loudspeakers, call origination switches, and other associated material, hardware and cable required.)

The above equipment shall be the product of a United States company of established reputation who has been regularly engaged in the design and manufacture of School Sound and Communications Systems for at least 30 years. The system shall be supplied or installed by or under the direct supervision of an authorized local distributor who has been trained by the manufacturer in the proper installation, operation, and service of the equipment.

**Technical Specifications**

<b>Rated Output:</b>	<i>Program – 35WRMS Intercom – 20WRMS</i>
<b>Frequency Response:</b>	<i>Program – +1, -3dB from 80Hz to 15kHz Intercom – Shaped for maximum intelligibility</i>
<b>Distortion:</b>	<i>Less than 1% at rated power and bandwidth</i>
<b>Inputs:</b>	<i>Two Lo-Z balanced microphone; Hi-Z unbalanced AUX; TELCO PAGE; 25V BOOSTER</i>
<b>Output:</b>	<i>25V Balanced line</i>
<b>Controls:</b>	<i>Front Panel – Program Selection: MIC 1, MIC 2, AUX Level: MONITOR/LISTEN, PROGRAM Distribution: ALL ROOMS, EMERGENCY, PRESS TO TALK Indicators: LED LEVEL Rear Panel – Input Gain: MIC 1, MIC 2, AUX, TELCO PAGE, TALK, LISTEN Internal – Gain: Emergency page, Supervisory tone, Time tone Enable/Disable: MIC 1/CONSOLE MIC, MIC 2/TELCO PAGE, Phantom Power, Supervisory Tone</i>
<b>Tone Specifications:</b>	<i>Time Tone – 750Hz Supervisory Tone – Repeating, 500Hz Call-in Tone – Repeating; oscillates between 500Hz and 750Hz (Switching Freq., 16Hz)</i>
<b>Power Requirements (120V AC, 60Hz):</b>	<i>100W maximum</i>
<b>Dimensions:</b>	<i>12"H x 20-1/2"W x 11"D (add 1-1/2" clearance for feet)</i>
<b>Cabinet:</b>	<i>Simulated walnut veneer</i>
<b>Panels:</b>	<i>Black with color-coded lines and instructions for Intercom, Program, Emergency Page</i>
<b>Shipping Weight:</b>	<i>35 lbs.</i>
<b>Accessory Equipment*:</b>	<i>CR 100A – Cassette Tape Player-FM/AM Tuner (requires RK78 kit and uses 2 rack spaces) SCR25A – Call-in Module (required if using call-in switches without built-in SCR circuitry) WMT 1A – Line-Matching Transformer for Telephone Paging TAMB – Telephone Access Module for Telephone Paging MBS 1000 – Remote Paging Microphone TP6AP – Remote Paging Interphone CA 10A, CA 11A, CA 17 – Call-in Switches TWK35 1 – Two-wire call in with shield</i>

\* for details, see appropriate specification sheets