

# Multi-Graphic® Master Control Panel

## Model MCP-35A



### Description

The Bogen Model MCP35A Master Control Panel has been designed to provide cost-effective communications and program distribution facilities for schools and other commercial and industrial establishments.

Level controls and aural and visual monitoring of program material are provided. Distribution is accomplished by simple push-button program selection and by following the color-coded guidelines. Emergency announcements to all locations take precedence over program distribution.

The MCP35A control panel may be used in conjunction with Bogen room selector panels (and a second program control panel, if desired) to direct intercom or program(s) to selected staff stations. Each room selector panel provides light annunciation for incoming staff station calls. During intercom communication, a supervisory tone sounds at the selected speaker and repeats at regular intervals to prevent unauthorized monitoring.

### Features

- Instantaneous two-way communication and distribution of background music or other program material
- Instant emergency and all rooms announcements
- Remote emergency paging capabilities
- Color-coded front panel for easy operation includes green guidelines for the intercom channel, amber guidelines for the program channel, and a red push button used for emergency page
- Includes two built-in amplifiers (20-watt intercom amplifier and 35-watt program amplifier)
- Provision for time signaling, telco, and voice call-in
- 2 Lo-Z balanced microphone inputs; 1 Hi-Z unbalanced AUX input
- 25V booster input and telephone paging input
- 25V balanced line output
- Terminals provided to activate the time signal feature and telco page feature
- Call-in switches can include a privacy mode
- Operates from a 120V, 60 Hz AC source and consumes no more than 100 watts
- Front panel finished in black

**ENGINEERED SYSTEMS**  
**BOGEN®**

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Part No. 54-7794-05B Printed in U.S.A. 0304

<b>Technical Specifications</b>	<b>Rated Output</b>	Program 35W RMS Intercom 20W RMS
	<b>Frequency Response</b>	Program +1,-3 dB from 80 Hz to 15 kHz Intercom Shaped for maximum intelligibility
	<b>Distortion</b>	Less than 1% @ RPO and bandwidth
	<b>Inputs</b>	Two Lo-Z balanced microphones; Hi-Z unbalanced AUX; TELCO PAGE; 25V BOOSTER
	<b>Output</b>	25V balanced line
	<b>Controls</b>	
	Front Panel	Program Selection: MIC 1, MIC 2, AUX Level: MONITOR/LISTEN, PROGRAM Distribution: ALL ROOMS, EMERGENCY PAGE, PRESS TO TALK Indicators: PROGRAM/TALK LEVEL
	Rear Panel	Input Gain: MIC 1, MIC 2, AUX, TELCO PAGE, TALK, LISTEN
	Internal	Gain: Emergency Page, Supervisory Tone, Time Tone; Enable/Disable: MIC1/CONSOLE MIC, MIC 2/TELCO PAGE, Phantom Power, Supervisory Tone
	<b>Tone Specifications</b>	Time Tone – 750 Hz; Supervisory Tone – Repeating, 500 Hz; Call-in Tone – Repeating, oscillates between 500 Hz and 750 Hz (Switching Frequency, 16 Hz)
	<b>Power Requirements</b>	120V, 60Hz AC, 100W maximum
	<b>Dimensions</b>	19" W x 3-1/2" H x 10" D • 2 Rack spaces
	<b>Weight</b>	Approximately 10 lb.
	<b>Operating Temperature</b>	0° - 130° F
<b>Optional Equipment:</b>	Model MCP-EXP Input Expander Panel, Model TWK351 adapter	

**Architect & Engineer Specifications**

The intercom/program distribution control panel shall be a Bogen Model MCP35A, or approved equivalent, 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 permanently printed on the front panel.

Control panels, which are complicated to operate and do not provide push-button operation, color-coded guidelines, and operating instructions printed on the front panel shall not be considered. The intercom shall be designed for continuous duty service in institutional and industrial applications on line voltages of 120V, 60 Hz AC, over a temperature range of 0° F to 130° F. Power consumption, 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 80 Hz to 15 kHz. 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 25V line output.

It shall include inputs for two Lo-Z balanced microphones, one Hi-Z unbalanced auxiliary input, telephone paging accessories, and booster amplifier. Terminals shall be provided to activate the time signal feature and telco page feature.

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 to permit emergency paging from a remote telephone, interphone or microphone, which shall capture system priority and override all functions except for the emergency page feature.

Screwdriver-adjustable, rear-panel mounted controls shall be provided to adjust the input gain of the program sources, telco page line, talk, and listen functions. Internal controls shall be provided to adjust the emergency page volume, supervisory tone volume, time tone volume, and to enable or disable the supervisory tone and phantom power to microphone inputs. Facilities for aural (monitor speaker) and visual (LED) monitoring of program material shall be provided.

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. Provisions are included for optional call-in using 2-conductor shielded cable.

The Master Control Panel shall require 2 rack spaces, measure 19" W x 3-1/2" H x 10" D and weigh approximately 10 lb. The control panel shall be finished in black. All program channel guidelines shall be amber; all communications channel guidelines shall be green. The emergency page push button shall be red.

The above equipment shall be the product of a United States company of established reputation that 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 and/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.

**BOGEN<sup>®</sup> COMMUNICATIONS, INC.**

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