

## MODELS 4001, 4002, 4003 CONTROL STATIONS



### INTRODUCTION

The Series 4000 IFB System Control Stations are designed to provide the necessary switching commands and voice signal origination that ultimately becomes the part of the composite IFB signals to the talent user stations. Each station provides a given number of switch functions according to its model number. (All switches are illuminated momentary pushbuttons with brightness levels.) The 4001 has six switches: IFB-1 thru IFB-4, IFB ALL, and SA (studio announce). The 4002 has eleven switches: IFB-1 thru IFB-8, IFB ALL, SA-1, and SA-2. Model 4003, with sixteen switches, provides IFB-1 thru IFB-12, IFB ALL, SA-1, SA-2 and SA3.

### MICROPHONES

Each model control station can be ordered with a high-quality gooseneck microphone permanently attached to the top panel. (An "M" suffix model need not be ordered.) A terminal-strip connection on the control station microphone preamplifier circuit accepts a microphone-level or line-level signal from the existing microphone. Any convenient nearby microphone may be used, i.e., an intercom headset microphone, audio-slate microphone, etc.

### INTERCONNECT

Interconnect between control stations and the 4010 Central Electronics unit is accomplished via 25-pair cable with microribbon connectors. All of the control station cables converge at the 4025A Splitter Assembly while a single cable then connects to the 4010. This configuration allows for up to four Model 4001 Control Stations to connect to a single electronics unit. The 4025A cross-connects all of the tally wires between control stations to provide usage information to all of the others when a given button is pushed. That is, if control station number one presses IFB-1, all other control stations will tally on their respective IFB-1 buttons.

### PRIORITIES

In addition to all the tallies; there are four levels of priority. Each station is assigned a dedicated level of priority by which one control station can override another. Priority levels are programmable and may be set up at the time of installation. If desired, the priority levels may be defeated for equal control station priority.

### POWER

Each control station is supplied with a small AC power supply for powering the lamps and local electronics. This allows the signal-carrying interconnect cables (to the central electronics and other control stations) to remain dry, avoiding the risk of a problem cable affecting power to the entire system. If desired, a central power supply can be used for powering all of the control stations, with 14 volts AC or 18 volts DC.

### CHOOSING A CONTROL STATION

If one Model 4010 Central Electronics unit is used, the correct control station(s) would be the Model 4001. If two central electronics units are used, the Model 4002 may be employed in up to four locations. Three 4010's would require up to four Model 4003 control stations. A 4002 or 4003 may be used with a single 4010 if future growth is anticipated; this allows for system expansion without component replacement and obsolescence.

### ACCESSORIES

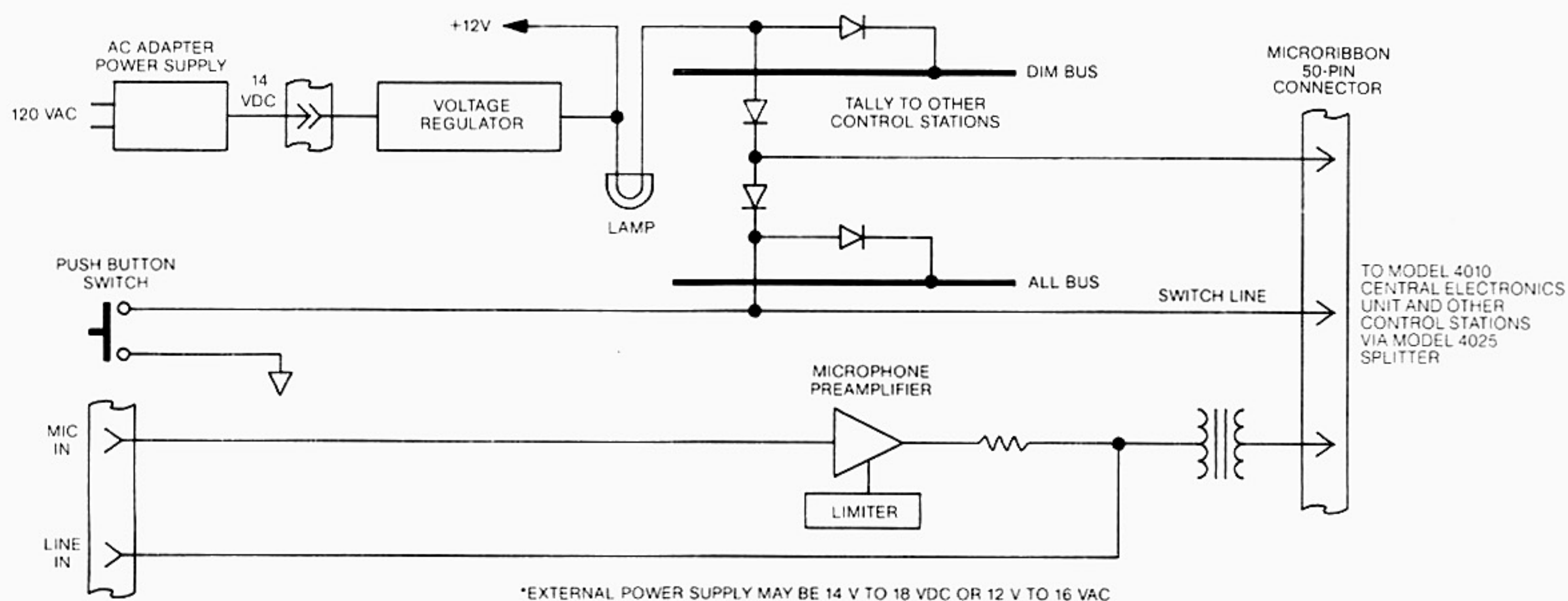
Each control station can be mounted in a console or table surface as well as standard 19" EIA equipment racks. To allow Models 4001 and 4002 to be installed in a rack, two rack mount adapters are available: Model 4001-RMA and Model 4002-RMA. The dimensions of these two units are 1.72" H x 19" W x 0.180" D / 43.7 H x 482.6 W x 86.4 D mm.



# **Models 4001, 4002, 4003 Control Station Specifications**

Microphone Preamplifier	
Frequency Response	+ 10, -3 dB 50 Hz to 16 kHz
Signal-to-Noise Ratio	58 dB
Total Harmonic Distortion	0.2%
Nominal Input Level	
Microphone	123 mV p-p
Line	-15 dBV to -5 dBV
Input Impedance	Unbalanced input
Microphone	470 ohms
Line	4.7 k ohms
Gain	54 dB to 14dB
Nominal Output Level	-10 dBV, balanced, Z = 300 ohms
Size and Weight	
4001/4001M	1.72" H x 8.5" W x 3.4" D 2.1 lbs./2.7 lbs. 43.7 H x 215.9 W x 86.4 D mm .953 kg/1.225 kg

Size and Weight	
4002/4002M	1.72" H x 12.25" W x 3.4" D 2.3 lbs./2.9 lbs. 43.7 H x 311.2 W x 86.4 D mm 1.043 kg/1.32 kg
4003/4003M	1.72" H x 19.0" W x 3.4" D 2.4 lbs./3.0 lbs. 43.7 H x 215.9 W x 86.4 D mm 1.089 kg/1.361 kg.
Power Pack	2.0" H x 2.37" W x 2.62" D 1.4 lbs. 50.8 H x 60.33 W x 66.68 D mm 0.635 kg
Power Requirement	
4001/4001M	14 VAC @ 200 mA
4002/4002M	14 VAC @ 450 mA
4003/4003M	14 VAC @ 1.0 amps



**Model 4001, 4002, 4003 Control Station Block Diagram**