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## **Application – Teacher Classroom Sound System** **Tech Works Solution – PA-401 Amplifier**

### **General Description -**

It has been proven that students learn better when they can hear better. A room full of students can get very noisy even when everyone is trying to be quiet. Just the breathing and shuffling of feet can cause the ambient noise in the classroom to go up enough to make it hard for the teacher to talk. Now to make matters worse the number of students in each classroom is far more than was intended originally. Tech Works simple wireless PA can solve the problem by giving a teacher a small wireless microphone and the students professional quality speakers.

Our PA-401 Amplifier is a simple, small, work horse that can power up to 40 Watts of speakers over the student seating area. This equates to around 8 ceiling speakers each putting out well over 100dB. In other word we can make even a soft spoken teacher sound like they are shouting without working very hard at all. The package is small and can fit almost anywhere in the teachers work area. A volume control on the front of the unit allows the teacher to adjust the level as necessary.

The ATW-251/L wireless microphone is a professional quality, electret lapel microphone with a crystal controlled VHF wireless body pack transmitter and desk mount receiver. This allows the Teacher to move freely around the room while still being heard loud and clear by every student.

### **Basic system components:**

<b>Product</b>	<b>Purpose or Function</b>
ATW-251/L	Wireless Microphone System – Teachers Microphone
PA-401	Audio Power Amplifier
PS2433	24 VDC Power Supply
System 5	Ceiling Speaker System – Student Listening Output

### **Benefits of using Tech Works –**

One supplier providing a total professional solution

## ***Tech Works™***



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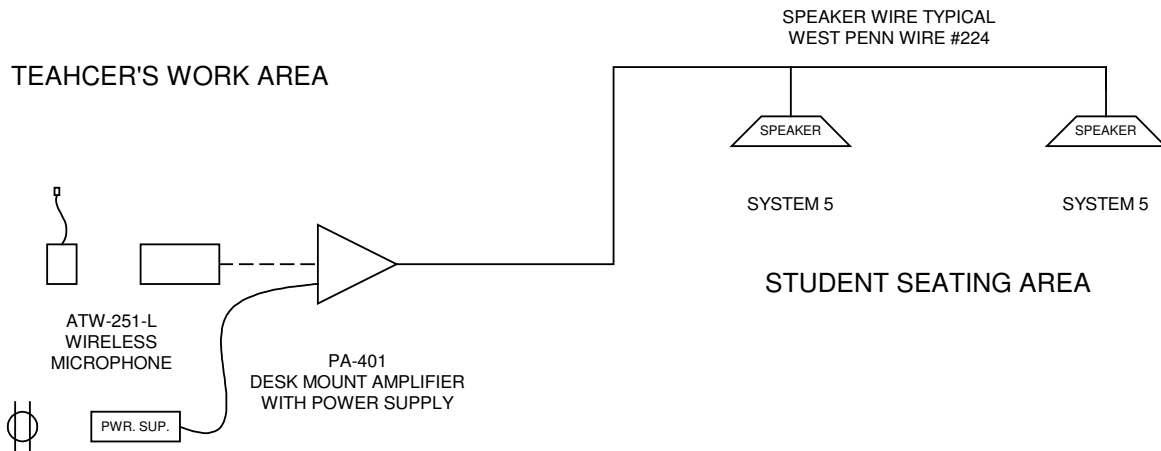
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## System Design Layout and Connections -



## TEACHER CLASSROOM SOUND SYSTEM

### Components –

<u>Qty</u>	<u>Part #</u>	<u>Description</u>
1	ATW-251/L	Wireless Microphone System – Teachers Microphone
1	PA-401	Audio Power Amplifier
1	PS2433	24 VDC Power Supply
2	System 5	Ceiling Speaker System – Student Listening Output

### Benefits of using Tech Works –

**Complete, Fully Integrated, Professional Quality, Communication**  
**Reliability**  
**Easy to Operate**  
**Easy to Install**  
**No Maintenance**