

TEL: (888) 935-3610 FAX: (888) 867-1566

AM7

LPTS SERIES D EMERGENCY LIGHTING EQUIPMENT

INSTRUCTION MANUAL

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- 1. **CAUTION** To prevent electrical shock, do not mate unit connector until installation is complete and A.C. power is supplied to the unit.
- 2. **CAUTION** This fixture provides more than one power supply output source. To reduce the risk of electrical shock, disconnect both normal and emergency sources by turning off the A.C. branch circuit and by disconnecting the unit connector.
- 3. **CAUTION** This is a sealed unit. The integral, high temperature Ni-Cad battery is not replaceable. Replace the entire unit when necessary. The EPA certified RBRC® Battery Recycling Seal indicates voluntary participation in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRC program provides a convenient alternative to placing used Ni-Cad batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-822-8837 for information on Ni-Cad battery recycling and disposal bans/restrictions in your area. Involvement in this program is part of our commitment to preserving our environment and conserving our natural resources.
- 4. **DO NOT USE OUTDOORS.** The **AM7** is for use with grounded, UL Listed, indoor fixtures except in heated air outlets or hazardous locations.
- The AM7 requires an unswitched A.C. power source of either 120 or 277 volts. Properly cap the unused A.C. lead.
- 6. Do not mount near gas or electric heaters.
- 7. The **AM7** should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- 8. The **AM7** will cold strike and operate *one* 2'-8' or *two* 2'-4' instant start, rapid start, U shape or circline, T8 through T12 fluorescent lamps, including energy saving and long 4 pin compact lamps for 90 minutes.
- The AM7 is compatible with most A.C. ballasts (including multiple lamp) as follows:
 Magnetic ballasts either one or two lamp emergency operation.
 Electronic ballasts one lamp emergency operation, consult Customer Service for two lamp emergency operation wiring diagrams.
- 10. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- 11. Do not use this equipment for other than intended use.
- 12. Install in accordance with the National Electrical Code and local regulations.
- 13. Installation and servicing should be performed by qualified personnel.
- 14. Lighting fixture manufacturers, electricians and end users need to ensure product system compatibility before final installation.

SAVE THESE INSTRUCTIONS







INSTALLATION INSTRUCTIONS

CAUTION: Before installing, make certain the A.C. power is off and the AM7 unit connector is disconnected.

1. LAMPS OPERATED

The **AM7** can be used with most 2'-8' lamps. Refer to the chart below for the type of lamp(s) operated and the number of lamps to be operated in emergency mode. Contact Customer Service for answers about specific lamps.

OPTION	LAMP TYPE	EMERGENCY OPERATION	*VIOLET LEADS	WIRING DIAGRAMS
1	2'-4' T-8/T-12 Single & Bipin Pin	One lamp	Connected	1,2,3,4,5,6,7,8
2	5'-8' T-8/T-12 Single & Bipin Pin	One lamp	Disconnected	1,2,4,5,6
3	2'-4' T-8/T-12 Single & Bipin Pin	Two lamp	Disconnected	9,10

^{*}The 6" violet leads provide the lamp selection option. The unit is shipped from the factory with the leads disconnected and capped.

2. MOUNTING THE AM7

Remove the ballast channel cover. Mount the AM7 in the ballast channel at least 1/2" away from the A.C. ballast(s).

When battery packs are remote mounted, the remote distance can not exceed ½ of the distance from ballast to lamp specified by the A.C. ballast manufacturer. For example, if the A.C. ballast manufacturer recommends no more than 25′ remote distance, then the battery pack should not exceed 12½. Under no circumstances should the battery pack exceed a distance of 50′ from the lamp.

3. WIRING

Refer to the wiring diagrams on the back page for the appropriate wiring of lamp(s) and ballast. Install in accordance with the National Electrical Code and local regulations. For additional wiring diagrams consult Customer Service.

4. INSTALLING THE LIGHTED PUSH BUTTON TEST SWITCH (LPTS)

Recessed Troffer Fixture – Select a convenient location with proper clearance in the ballast cover and drill or punch a $^{7/8}$ " hole ($^{1/2}$ " knockout). Insert the $^{7/8}$ " bushing into the hole. Push the plastic tube through the bushing. Disconnect the leads from the **LPTS** housing and route the leads down the plastic tube. Reconnect the leads to the housing, observing the proper polarity (Red lead to positive (+) red tab). Push the entire assembly back into the tube until the lens collar rests against the plastic tube. The plastic tube should be adjusted so that the **LPTS** is within $^{1/4}$ " of the fixture lens. The **LPTS** must be visible after installation. Refer to *Illustration 1*.

Strip Fixture – Select a convenient location on the side of the fixture so the **LPTS** can be seen after installation. Allow for proper clearance inside the fixture and drill or punch a 1/2" hole. Disconnect the leads from the **LPTS** housing. Push the **LPTS** housing into the 1/2" hole until it is firmly locked in place. Reconnect the leads, observing the proper polarity (Red lead to positive (+) red tab). Refer to *Illustration 2*.

Illustration 1 Recessed Troffer Fixture

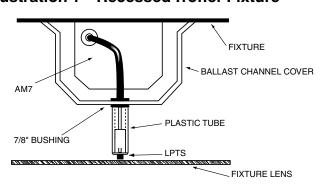
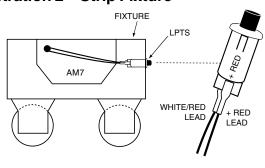


Illustration 2 Strip Fixture



OBSERVE PROPER POLARITY

WIRING THE A.C. INPUT

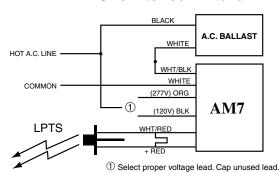
- A. The AM7 and A.C. ballast must be on the same branch circuit.
- B. The **AM7** requires an *unswitched* A.C. power source of either 120 or 277 volts. Select the proper voltage lead and cap the unused lead.
- C. When the **AM7** is used with a switched fixture, the A.C. input to the **AM7** must be connected ahead of the fixture switch. Refer to *Illustration 3* for switched and unswitched fixture wiring diagrams.

6. BALLAST WIRING BLOCK DIAGRAM

Illustration 3 Switched Fixture

HOT A.C. LINE WHT/BLK WHITE (277V) ORG (120V) BLK WHT/RED + RED (1) Select proper voltage lead. Cap unused lead.

Unswitched Fixture



7. LABELS

Attach the appropriate labels adjacent to the **LPTS**. Annotate Re-lamping label for lamp type and wattage. The Caution and the Re-lamping labels must be on the fixture in a readily visible location to anyone attempting to service the fixture.

8. COMPLETING INSTALLATION

When the installation is complete, switch the A.C. power on and join the AM7 unit connector.

OPERATION

Normal Mode – A.C. power is present. The A.C. ballast operates the fluorescent lamp(s) as intended. The **AM7** is in the standby charging mode. The **LPTS** will be lit providing a visual indication that the battery is being charged.

Emergency Mode – The A.C. power fails. The **AM7** senses the A.C. power failure and automatically switches to the *Emergency Mode*. One or two lamps are illuminated, at reduced output, for a minimum of 90 minutes. When the A.C. power is restored, the **AM7** switches the system back to the *Normal Mode* and resumes battery charging. See page 1 of the Instruction Manual.

TESTING & MAINTENANCE

Pressing the red lens on the **LPTS** turns off the light on the **LPTS** and forces the unit into emergency mode. This interrupts power to the emergency lamp only. The emergency lamp is now being lit by the **AM7** unit and will be less bright than the other lamps in the system. To simulate a "BLACK OUT" use the wall switch or circuit breaker to turn off A.C. power.

Initial Testing – Allow the unit to charge approximately 1 hour, then press the **LPTS** to conduct a short discharge test. Allow a 24 hour charge before conducting a one hour test.

The **AM7** is a maintenance free unit, however, periodic inspection and testing is required. NFPA 101, Life Safety Code, outlines the following schedule:

Monthly – Insure that the **LPTS** is illuminated. Conduct a 30 second discharge test by depressing the **LPTS**. One lamp should operate at reduced output.

Annually – Insure that the **LPTS** is illuminated. Conduct a full $1^{1}/_{2}$ hour discharge test. The unit should operate as intended for the duration of the test.

"Written records of testing shall be kept by the owner for inspection by the authority having jurisdiction."

SERVICING SHOULD BE PERFORMED BY QUALIFIED PERSONNEL.

Consult Customer Service for current warranty information.

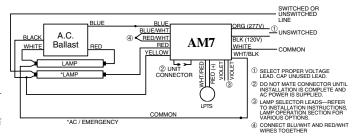
TYPICAL WIRING DIAGRAMS

For wiring diagrams of ballasts not shown, consult our Customer Service.

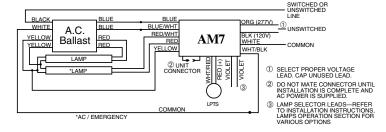
1. ONE LAMP RAPID START BALLAST

BLUE BLUE BLUE OR UNSWITCHED OR UNSWITCHED LINE BED BLUE BLUE BLUEWHT ORG (2777) ① UNSWITCHED LINE BED BLUE BLUEWHT AM7 BED BLUE BLUEWHT ORG (2777) ① UNSWITCHED BLK (120V) WHITE COMMON "LAMP COMMON UNSWITCHED SELECT PROPER VOLTAGE LEAD. CAP UNUSED LEAD. 2 D N NOT MATE CONNECTOR UNTIL INSTALLATION IS COMPLETE AND AC POWER SUPPLIED. 3 LAMP SELECTOR LEAD.—REFER TO INSTALLATION INSTRUCTIONS, LAMPS OPERATION SECTION FOR VARIOUS OPTIONS

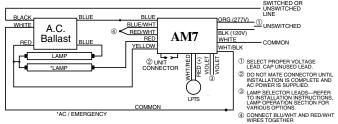
5. TWO LAMP INSTANT START BALLAST



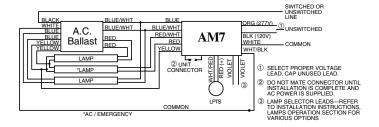
2. TWO LAMP RAPID START BALLAST



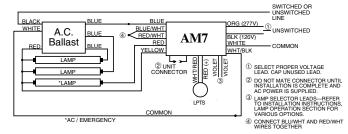
6. TWO LAMP INSTANT START BALLAST



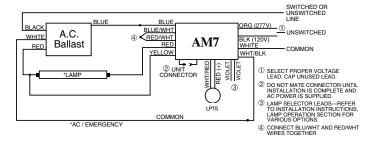
3. THREE LAMP RAPID START BALLAST



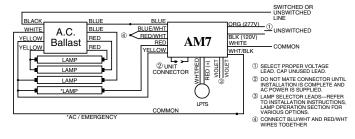
7. THREE LAMP INSTANT START BALLAST



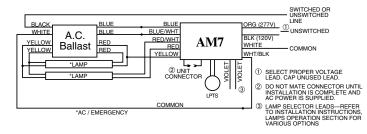
4. ONE LAMP INSTANT START BALLAST



8. FOUR LAMP INSTANT START BALLAST



9. TWO LAMP RAPID START BALLAST W/2 LAMP EMERGENCY OPERATION



10. TWO LAMP INSTANT START BALLAST W/2 LAMP EMERGENCY OPERATION

