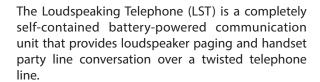
Loudspeaking Telephone



Features

- Simple Installation
- Simple Operation
- Ease of Service
- Portable
- Battery Operation
- Rugged Construction
- Environment Protected
- Stainless Steel Case



Installation and maintenance are simple due to the single plug-in amplifier board and the battery power supply used in the LST. The mode of operation is also simple, greatly improving ambient noise rejection. An anti-side tone circuit provides improved reception, particularly in areas with high ambient noise, and individual volume controls are provided for the speaker and handset receiver. The audio is of high quality; voices sound clear and natural, not harsh or metallic.



The LST operates from two 12 volt DC batteries which are placed in parallel during normal conversation to share on battery drain. Provisions on the LST unit keep the speakers quiet when receiving a normal audio signal or when paging. Input phone line DC polarity does not have to be observed since the unit design provides for polarity reversal.

Also available is a single battery Loudspeaking Telephone, LST II which is fully compatible with the standard LST and ideal where space is limited. The LST II offers all of the features of the two battery unit but requires only one battery.

Typical System Interconnection

There is no practical limit to the number of units which can be connected to the Loudspeaking Telephone system. The units can be placed miles apart or as close together as a few feet. The type of wire that is used is not critical; in fact, low cost telephone twist wire ranging from AWG 12 to AWG 19 is suitable. The AWG size is dependent upon the line length of the system and the number of phones connected to the line. For example, systems up to 1000 feet and containing up to 100 phones will use AWG 19. The system arrangement need not be on a loop basis, but can include side branches as required for convenience.

Typical Cable Characteristics

The table below defines cable size with cable characteristics to achieve increased operating distance and is dependant upon the type and quality of cable utilized and optimum cable line installation.

Cable Size	DC Resistance (per 1000 ft)	Inductance	Capacitance (conductor to conductor)	Maximum Cable Length
No. 22 AWG	16. 5 ohms	Max 0.20 μH/ft	Maximum 60 pF/ft	15,750 feet (~3 miles)
No. 18 AWG	7. 1 ohms	Max 0.20 μH/ft	Maximum 60 pF/ft	31,500 feet (~6 miles)
No. 14 AWG	2.8 ohms	Max 0.20 μH/ft	Maximum 60 pF/ft	63,000 feet (~12 miles)

Loudspeaking Telephone



Specifications

ы	lectrical	

Power Source:
LST:
LST II: One 12 volt DC NEDA 926 battery or the equivalent
Battery Requirements: Standby: 0 milliamperes
Speaker Amplifier:
Handset Amplifier:
Phone Line:
Allows operation of many units on the same phone lines
Paging Voltage:
LST and LST II:
Paging Sensitivity:
Speaker:
LST:
LST II:
Handset:Standard handset with sealed push-to-talk; switch and 4 foot coiled cord
Controls:
Speaker Amplifier (POT 1):adjustable to 30 dB
Handset Amplifier (POT 2):adjustable to 30 dB
Output Power:
Speaker Amplifier:
Handset Amplifier:
Short Circuit Paging Current: Standard Model 0.8 amperes, Permissible Model .35 amperes
Insulation:
Carrier Impedance:
Line-to-Line:
Line-to-Ground:
Mechanical
Dimensions:
LST: 6.5 (165) W x 16.25 (413) H x 5.56 (142) D; inches (mm)
LST II:
Weight:
LST:
LST II:
Construction: #16 gauge stainless steel
Connection: Spring loaded push terminals for phone line (2)
Environmental
Moisture:
Temperature Range:30° C to 60° C

Application	Rig Models	Mine Models	Desktop Model
LST (Two 12 Volt Batteries)	N/A	AM7021*	N/A
LST II (One 12 Volt Battery)	AM7009	AM7011*	AM7030

Note 1: Models marked with an asterisk (*) are MSHA permissible; approval Number 9B-155-0.

Note 2: There are no operational differences between the Rig, Mine LST and Mine LSTII Models; the only variation is the front cover labels, tailored to the listed industry.





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