

FIRECOM 210 INTERCOM SYSTEM: SAMPLE TECHNICAL SPECIFICATIONS

01. PURPOSE

- 01.1 The Purpose of these technical specifications is to provide for the purchase of a **FIRECOM 210 Apparatus Intercom System** as suggested by the National Fire Protection Association NFPA 1500, section A-5-11.1 (Hearing Protection).
- 01.2 Complete system shall meet or exceed the following specifications.

02. SYSTEM/CAPABILITY

- 02.1 Shall be compatible with VHF or UHF radios.
- 02.2 Shall not exceed two (2) amps (12v DC) to total power input requirement for each system.
- 02.3 Minimum allowable power output for each system of 375 milliwatts per station at 150 ohms.
- 02.4 Shall have independent transmit and receive level adjustments.
- 02.5 Shall have the capacity for a total of not less than two (2) headsets.

03. HEADSETS

- 03.1 Each headset with radio transmit capability (officer and driver) shall have a voice activate intercom function and ear dome mounted radio transmit push-to-talk button. Intercom function for the officer and driver shall be hand free.
- 03.2 Each headset without radio transmit capability (jumpseats) shall have a momentary mic on/off button mounted on ear dome for intercom only function.
- 03.3 Both under helmet and standard over the head style headsets will have a detent volume control on ear dome.
- 03.4 **Sensitivity:** Shall not be less than 104 db re. .0002 microbar @ 1000 Hz 1mw with not less than 24 db noise reduction rating and will meet or exceed NFPA 1500 Hearing Protection Standards.
- 03.5 **Shielding:** Will have shielded coil cord at least 6 feet long (extended) and shall terminate with a single or double 5 conductor plug.
- 03.6 **Weight:** Shall not exceed 17 ozs. (Not including the Comm Cable.)
- 03.7 **Single ear headset:** Shall meet all headset specifications in this document and have one ear dome only.
- 03.8 **Slotted headset:** Shall meet all headset specifications in this document and will have two ear domes. One ear dome will be slotted and will not have a speaker or any other mounted electrical hardware so as to allow ambient sound to enter the ear piece.

FIRECOM 210 INTERCOM SYSTEM: SAMPLE TECHNICAL SPECIFICATIONS

03.9 **Microphone:** Shall be noise canceling, electret mic, mounted on a flexible articulating wire boom assembly, which will be able to be positioned on either the right or left side and is capable of operating on a source resistance range of 220 to 2200 ohms.

04. PUMP PANEL HEADSET PLUG-IN MODULE

04.1 The pump panel headset plug-in module shall be water resistant and designed for exterior use.

05. EAR AND MIC COVERS

05.1 Each headset shall include replacement cloth ear covers and foam mic cover.

06. HARDWARE

06.1 Headset plug-in modules will connect with RJ-12 connectors and shall have a built in rubber stain relief with moisture/dust proof boot.

07. CABLES (VEHICLE MOUNTED)

07.1 Shall be six (6) conductor, copper (solid or stranded) telephone type flat insulated wire utilizing six (6) conductor telephone type modular connectors.

08. WARRANTY

08.1 Each 210 intercom system's components shall have a minimum of a (2) year warranty covering defects in material and workmanship.

09. PERFORMANCE

09.1 The manufacturer shall have similar units in production and actual field work situations for a minimum of three (3) years.

10. RADIO INTERFACE

10.1 The mobile radio interface cable can range from a standard interface that comes with the intercom system (no additional charge) to an interface that needs to be specially designed for a particular radio (minimum charge of \$180.00). Which interface will be required will depend upon the radio make and model and the abilities of the installer.

10.2 A handheld interface adaptor allows radio transmit headsets to be plugged into a specific portable radio. Each handheld interface adapter will have a stainless steel positive grip belt clip.