



City of Attleboro, Massachusetts
Office of Fire Prevention & Superintendent of Fire Alarm
1476 West Street
Attleboro, Massachusetts 02703
Fire Prevention 774-203-1922, Fax 508-399-6273
Superintendent of Fire Alarm 774-203-1923

Scott T. Lachance
Fire Chief

REQUIRMENTS FOR RADIO FIRE ALARM SYSTEM

1. PERMITS:

- 1.1 As required by Massachusetts General Law, Chapter 148, Section 27, a permit will be issued by the Attleboro Fire Department Fire Alarm Superintendent to perform work on fire protection system.
- 1.2 A City Of Attleboro Fire Department Radio Master Box Programming Form shall be completed. This form must be approved by the Superintendent of Fire Alarm.
- 1.3 Electrical permit will also be required for the installation.
- 1.4 Radio Master Box shall be a 16 zone minimum Signal Communications.

2. INSTALLATION:

- 2.1 The entire system shall be installed according to the following: Manufactures Installation Requirements. NFPA 72 and NFPA 1221.
- 2.2 Radio Alarm Box shall be installed in the same location as the Fire Alarm Control Panel. If the building size prevents this because of radio antenna cable length, The Attleboro Fire Alarm Superintendent shall approve any alternate location for the Radio Master Box.
- 2.3 Radio Master Box zone assignment will be made in consultation with the Attleboro Fire Alarm Superintendent.
- 2.4 Attleboro Fire Alarm Superintendent will issue Radio Master Box Number.
- 2.5 Radio Master Box shall be programmed to self-test once daily, the Attleboro Fire Alarm Superintendent will assign the time of the test. The test time shall be entered onto the Radio Master Box Programming Sheet and initialed by the Fire Alarm Superintendent.
- 2.6 Radio Master Box will be programmed with door open tamper switch active.
- 2.7 Radio Master Box will have a Die tech surge protection on the 120V feed for the Radio Master Box.
- 2.8 The Radio Master Box will not monitor Fire Alarm Panel Trouble signals.
- 2.9 Outside weather proof pull station will be wired directly on zone1 of the Radio.
- 2.10 All Sprinkler Tamper Switches will be programed for supervisory.
- 2.11 Al Duct Smoke Detectors will be programed for alarm.



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3. ANTENNA REQUIREMANTE:

- 3.1 Antenna for Radio Master Box shall be installed according to the Following. Manufactures Installation requirements, NFPA 72 and NFPA 1221.
- 3.2 Antenna location is to be determined during consultation with the Fire Alarm Superintendent. Antenna Must be mounted above roof and flashing. The antenna cannot be mounted within 20 feet of air handler unit etc. The vendor shall be contacted as necessary to determine proper antenna location.
- 3.3 Any Antenna cable run under 100 feet shall meet or exceed RG213. If the antenna cable run will exceed 100 feet the contractor shall contact the distributor for acceptable alternative solutions. The information shall be immediately submitted to the Fire Alarm Superintendent for approval.
- 3.4 Antenna Cable shall be installed in a metallic conduit (RMC, IMC, EMT) with rain tight fittings.
- 3.5 A service Box at antenna with drain hole.
- 3.6 Conduit sealed with duct seal when transition in the building.
- 3.7 Orange tape or equivalent must be used on connection at antenna.
- 3.8 Factory PL259 Connector must be at antenna.

4. SCHEDULING:

- 4.1 Connecting to the Municipal Fire Alarm System requires advance notice. Call at least one weeks ahead to the Fire Alarm Superintendent to schedule a meeting.
- 4.2 Fire Alarm Superintendent must be present when Radio Master Box is placed in service.
- 4.3 A factory check out must be done prior to the Radio Master Box Placed in service.
- 4.4 A representative from the company installing the Radio Master Box, A representative from the company installing the fire alarm control panel, A representative of the sprinkler contactor and a qualified radio box certification representative shall be present to conduct the acceptance Test.
- 4.5 When call to schedule a connection, please be prepared to provide the Fire Alarm Superintendent with a complete copy of the Radio Master Box Programming Sheet.



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5. POST ACCEPTANCE:

- 5.1 Once the Radio Master Box has been accepted, it shall not be opened by the Radio Box Installer, Fire Alarm System Installer, Sprinkler contractor, or any other person.
- 5.2 If work is to be performed on the Fire Alarm System or sprinkler system, the contractor shall contact the Fire Alarm Superintendent 24 hours in advance to schedule taking Radio Master Box off line.

Note to Installers: These guidelines are subject to change; please make sure you are using the most recent revision. Revision: 10/15/2018