

Submittal

RC 108A

The radio amplification unit is typically installed in a centrally located electrical equipment room, or a dedicated ARCS room, which is a 2 hour fire rated room. It is a NEMA 4 rated cabinet that houses the key components of the ARC System. This includes a radio repeater, combiner / duplexer, power supply, sealed lead acid batteries, and data acquisition and monitoring unit. This system requires a 110V 20A direct line with a dedicated service switch and connects directly to the DRC (dedicated radio console CMD-V1) with (2) CAT 5 cables, one for data and one for voice, and a 14/2 cable for 24V DC power.

Key Features

- NEMA 4 enclosure, non ferrous with red powder coat, front and back doors and 3 point locking system, locks via FDNY padlocks.
- NEMA 4 mechanical venting.
- TAIT TB9100 dual channel repeater with P25 capability, dual mode operation, smart AC / DC operation, 5 watt transmit power.
- Cavity combiner / band pass duplexer, 25W output.
- 120V to 24V 10A power supply with UPS unit, built-in battery test function, battery polarity protection.
- Power distribution unit / surge protection with 15A resettable circuit breaker and 1800 joule surge suppressor, active monitoring for ground, surge, and power.
- Data acquisition unit which constantly monitors all system parameters, internet capable for remote monitoring, building management capable for integration into an existing system.
- Active DAS infrastructure monitoring; including antennas, coaxial cables and all other passive components. Exact location of the malfunctioning component appears on the active touch panel. All components and labels are managed from the active touch screen (requires compatible active tappers).
- (2) x 110Ah 12V sealed lead acid batteries for 24H reserve power, 6H full use power backup.
- Dedicated marked terminals (color coded) for inter-connection to any fire alarm panel (supervisory signals).
- Touch screen on RAU door for local monitoring of alarm conditions, in addition to the remote DRC.
- NYC Fire Department key switch to activate channel 11 and channel 12 on the RAU door, for ease of maintenance, and for redundancy to the DRC.
- Adjustable stainless-steel legs for ease of installation, avoiding the need of a housekeeping pad.

Specifications

Radio Amplification Unit – RC108A		
Volts AC	115V	7.4A
Volts DC	24V	9.0A
Insertion Loss TX	4 Db	
Insertion Loss RX	5 Db	
Frequencies TX	Channel 11 - 483.0125 MHz	Channel 12 - 484.7625 MHz
Frequencies RX	Channel 11 - 486.0125 MHz	Channel 12 - 487.7625 MHz
Ambient Conditions	35° F - 125° F	RH < 90%, non condensing

Warranty – 1 Year Parts and Labor

Dimensions

