



# FIRE DEPARTMENT

9 METROTECH CENTER

BROOKLYN, N.Y. 11201-3857

## **CERTIFICATE OF APPROVAL # 6069** **THIS CERTIFICATE IS REVOCABLE, NOT TRANSFERABLE** **AND EXPIRES ON January 20, 2014**

By order of Fire Commissioner Salvatore Cassano, and pursuant to Section FC 112 of the New York City New Fire Code, the following equipment or system is accepted for use provided the conditions as outlined below are in full compliance.

**Manufacturer:** Commercial Wireless Systems International

**Trade Name:** CWSI

**Product:** Fire Alarm Equipment  
The CWSI System

**Basic Model Number(s):** The CWSI System consist of the following modules and blocks:  
CP-3000 Control Panel  
AR-3 Wireless Fire Alarm Repeater  
330 Wireless Fire Transmitter  
300/301 Wireless Smoke Detector with built in sounder

**Pertinent Code Section(s):** Section FC 901 of the New York City Fire Code

**Test(s) Standards(s):** UL 864 9<sup>th</sup> Edition

**Laboratory:** Underwriters Laboratories, Inc.

**Test Report(s):** UL S24909 Vol. 1 Sec.1 Issued 2010-04-01, revised 2010-06-05  
UL S24429 Vol. 1 Sec.1 Issued 2010-04-01

**Description:** The CWSI CP-3000 is an intelligent addressable wireless fire alarm control panel. The CP-3000 system provides for annunciation of up to 1024 individual addressable initiating devices including smoke detectors, fire transmitters, and repeaters. It has two on board transceivers that allows all communications with devices to be done via radio frequency (RF). Since the communications are bi-directional, the control panel can send out control commands to perform functions including turning on or off repeater NAC circuits and tandem smoke detector sounder activation. The advanced RF protocol and speed of the CP-3000 allows a trouble with any one of up to 1024 initiating devices to be reported within 200 seconds. An internal piezo sounder provides

distinct tones for alarm, supervisory and trouble signals. The control panel contains a clock and non-volatile memory that will record and store events by time and date of occurrence. The CP-3000 is capable of storing 4000 events for later viewing.

The CWSI AR-3 is an intelligent addressable wireless fire alarm repeater. It will receive and retransmit signals to and from CWSI control panels, devices, and repeaters. It has two on board transceivers that allows all communications with devices to be done via radio frequency (RF). The AR-3 will receive and retransmit alarm, supervisory, and trouble signals from the devices to the control panel. Since the communications are bi-directional the repeater can retransmit RF command signals from the control panel to activate its NAC circuits and relays. The repeater will also retransmit control panel commands to perform functions including turning on or off tandem smoke detector sounders. The AR-3 notification appliance circuits are field selectable for Class A or B operation. Models RB-10, RB-20, RB-30, RB-40 relay boxes are available containing 10 to 40 dry contact programmable relays. These relay boxes can be connected to the AR-3 providing up to 40 dry contact relay outputs.

The model 330(TS) fire transmitter is a UL864 and UL1730 listed device specifically designed for connection to a normally open dry contact output. The transmitter is fully supervised for tamper, low battery, RF signal integrity and wiring faults. The transmitter is powered by a single 3 volt lithium battery. The Model 330TS contains a tamper switch to monitor opening of the case instead of the tilt switch in the Model 330.

The Models 300/301 are self-contained photoelectric type smoke detectors with a built in sounder and transmitter. The detectors comply with UL 268 and are designed to provide open area protection. The transmitter is fully supervised for tamper, low battery, chamber sensitivity and RF signal integrity. The internal sounder can also be turned on remotely by the CP-3000 FACP (model 301 only).

## Conditions of Approval:

1. All uses, configurations, arrangements and functions, application and installations shall comply with the provisions of New York City Construction Codes, specifically Building Code Chapter 9 & Appendix Q Section BC Q106, and New York City Electrical Code. Further, the installation shall be in accordance applicable provisions of New York City Fire Code and IRCNY §4000-06, manufacturer's recommendations and UL Standards 864, 268 and 1730.

2. The CWSI System shall comply with Special Requirements for Low-Power Radio (Wireless) Systems (Section 6.16; NFPA 72, 2002 edition).
3. The CWSI System shall not be installed as part of Fire Command Center.
4. Power supply of CP3000 and AR-3 shall comply with IRCNY §4000-06. Power supply of 330 Wireless Fire Transmitter and 300/301 Wireless Smoke Detectors shall use 3 Volt lithium batteries, which shall comply with Section 6.16.2 NFPA 72, 2002 edition requirements.
5. The wiring between the Model 330 and the device (pull station, water floor switch, tamper switch, duct detector) shall be within 3 ft.
6. The CWSI System is wireless system with the exception of the Auxiliary Output and NAC circuit, which are hardwired circuits that shall comply with IRCNY §4000-06 requirements.
7. When used as a central office control communicator or a transmitter, the installation and operation of the equipment and devices shall comply with 3RCNY R901-01. It shall have the capability of transmitting separate and distinct signals to indicate manual pull station alarm, automatic detection alarm, sprinkler waterflow alarm, supervisory signal indications, and trouble indications.
8. The CWSI System shall be used only with listed fire alarm equipment and devices, with which the compatibility has been determined by UL listing report.
9. Only enclosures painted red in color shall be used.
10. The connection of security/burglar devices and equipment to the fire alarm control unit is prohibited. A sign must be provided to indicate the same.
11. All CWSI System installations shall be inspected and tested by FDNY fire alarm inspection unit for the final approval.
12. Underwriters Laboratories, Inc. listing requirements and limitations shall be complied with.
13. Certificate of Approval number shall be plainly and permanently stamped or otherwise fixed upon each product by the applicant.
14. The Fire Department's conditions of approval shall be enumerated in the installation manuals and brochures that will be provided to all New York City buyers and users.
15. Fire Department Certificate of Approval does not constitute an endorsement or recommendation of your product by the Fire Department, but is a certification that your product is acceptable as of the date of issuance.

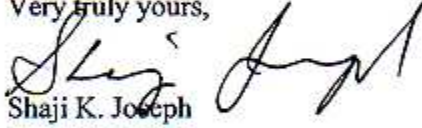
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16. The Fire Department reserves the right to withdraw this approval at any time in the event there is a reasonable doubt that the product does not operate or perform as required by code, the conditions of this resolution or as represented in your application.
17. As the manufacturer of this product, you should be aware that any end user who fails to comply with the condition as outlined in the approval would be subject to enforcement action, which may include fines and imprisonment.
18. This Certificate of Approval does not grant the right to use any trademark associated with the New York City Fire Department (the letters FDNY, the FDNY Shield design, the FDNY Maltese Cross design, and the seal of the City of New York). The unauthorized use of trademarks in connection with the sale of commercial goods or services violates federal and state laws.
19. Products marked to indicate the Certificate of Approval number might refer to the "NYC Fire Department" or "NYC Fire Dept" (e.g., "NYC Fire Dept Certificate of Approval #XXXX).

Any change in company name or ownership, product name, design or model number of any product included on this certificate must be immediately reported to this Department in writing.

When responding to this Department regarding this subject matter, kindly refer to F.P. Index # 1008017 and to Igor Chouchereba attention, 9 MetroTech Center #1S-43-K, phone (718) 999-1997A.

Very truly yours,

  
Shaji K. Joseph  
Chief Examiner  
Technology Management

c: Thomas Pigott, B. C. Chief of Technology Management  
Tamara Saakian, P.E., Director of Engineering.

SJ: IC/1008017A