# 7788F/7744F Series

## Wireless Fire Alarm Communicators for AES-*IntelliNet*

Model 7788F

LISTED

### Advanced Wireless Alarm Monitoring

The AES-*IntelliNet* mesh radio network offers unmatched reliability and speed in delivering wireless alarm signals to a central station without third party fees or reliance on networks owned by companies outside the security and fire alarm industry. AES-7788F/7744F Series Smart Subscriber Transceivers provide the wireless communication link between the fire alarm panel and the central station receiver. The 7788F/7744F Series is ideal for most commercial fire alarm applications. Each 7788F/7744F Series Subscriber is housed in a full sized, red, locked, steel cabinet and supports a range of alarm panel inputs including EOL fire, EOL supervised, and direct voltage from the panel (non-fire applications).

### Supervised Operation

AES Smart Subscribers offer fully supervised operation that includes monitoring of operating power (both primary AC power and battery backup) and the connection to the radio network. Each Subscriber "checks in" with the AES central station receiver at least once every 24 hours. The supervision check in time can be set for as often as once per minute and, because the central station owns the wireless network, there is no additional cost for air time to transmit supervisory signals.

### Full Data Reporting from Alarm Panel Digital Dialer

Models 7788F-ULP and 7744F-ULP come equipped with an IntelliPro Fire Full Data Module (AES-7794) which enables reporting of full alarm data captured from the fire alarm panel's digital communicator. IntelliPro Fire supports most alarm communication formats including Contact ID, Pulse, as well as Bosch Modem IIe and Modem IIIa2.

AES CORPORATION

RESURGAM. CITY OF PORTLAND, MAINE

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Inspections Division
Approved with Conditions

Date: 10/01/14

### Features – Al

- UL Listed cor cations.
- Meets NFPA 72 requirements
- Direct reporting to AES receiver across IntelliNet wireless mesh network
- Each Subscriber acts as transmitter/receiver/repeater
- Simple and fast activation on network
- On board status LEDs for easy set up
- 8 programmable zone inputs – 7788F
- 4 programmable zone inputs and 4 reverse polarity inputs – 7744F
- Easy programming via AES handheld programmer or PC
- Rugged metal housing ideal for any commercial fire alarm application

### Models 7788F/7744F-ULP with IntelliPro Fire also includes

- IntelliPro Fire transmits full alarm data from virtually any fire alarm panel digital communicator
- Alarm format support for Contact ID, Pulse, or Bosch Modem IIe or Modem IIIa2
- Easy installation in AES subscriber
- Operates in applications with or without a phone line

Wireless mesh networking is an innovative technology adopted by many industries with applications that need to communicate data over a large geographic area with a high level of reliability at a low total cost of ownership.

The advanced design and 2-way communications capability provides easy installation, expansion, and management when compared to alternative communication methods, both wired and wireless.

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## Technical Specifications

### 7788F/7744F Series Subscribers

**Dimensions**
- 13.25"H x 8.5"W x 4.3"D (34cm H x 21.5cm W x 11cm D)

**Weight**
- Approx. 7 pounds (3.2 kilograms), excludes battery.

**Radio Frequency**
- Standard Frequency Range: 450-470MHz (others available)
- Output Power - 2 Watts (others available)

**Antenna**
- Included 2.5 db tamper resistant antenna mounts on enclosure
- Multiple remote antenna options available

**Power Input**
- 16.5VAC, 40VA (transformer not included)

**Backup Battery**
- Will charge 12V battery up to 7.5 AH. Requires 12VDC 7.5 AH battery for UL 864.

**Alarm Signal Inputs (subscriber)**
- 7788F – 8 individually programmable zones
- 7744F - 4 individually programmable zones and 4 reverse polarity inputs

**UL Standards**
- UL 864 Edition 9 – Standard for Control Units and Accessories for Fire Alarm Systems
- UL 365 – Standard for Police Station Connected Burglar Alarm Units and Systems
- UL 1681 – Standard for Central Station Burglar Alarm Units

**Antenna Cut / Communication Trouble Output**
- Form C relay; fail secure; rated for 24 VDC 1A resistive

**Reset Button**
- Located on main circuit board.

**Operating Temperature**
- 0° to 50° C (32° to 122°F)

**Storage Temperature**
- -10° to 60° C (14° to 140°F)

**Relative Humidity**
- 0 to 85% RHC, Non Condensing

### AES-7794 IntelliPro Fire

**Input / Output Connections**
- RJ11 connection to AES subscriber for module data and power
- RJ11 connector for Handheld Programmer/PC programming
- RJ31X Telco connections - T and R both in and out via terminal strip and RJ45
- Alarm Panel digital communicator T and R both in and out via terminal strip and RJ45
- Trouble output: Form C relay detects if Subscriber is off the network

**Alarm Formats**
- Support for Contact ID and Pulse formats as well as Modem IIe and Modem IIIa2 converted to CID

**Size**
- 2.8 x 5.0 inches (7.1cm x 12.7cm)

**Power Requirements**
- 12 VDC nominal - primary and backup power provided by the AES 7788F/7744F or other Subscriber

## How to Order

| Model | Desc |
|---|---|
| 7744F | 4 Zone Fire Alarm Subscriber with 4 reverse polarity inputs |
| 7744F-ULP | 7744F Fire Alarm Subscriber with IntelliPro Fire full data module |
| 7788F | 8 Zone Fire Alarm Subscriber |
| 7788F-ULP | 7788F Fire Alarm Subscriber with IntelliPro Fire full data module |

## Optional Accessories

| | |
|---|---|
| 7041E | Subscriber Handheld Programmer |
| 7794 | IntelliPro Fire Full Data Module |

AES-IntelliNet™ is the industry leader in delivering high quality wireless mesh networks to the fire and security industry in commercial, corporate, government, and educational applications with its broad line of products and advanced network management tools. Users of AES-IntelliNet networks have gained significant revenue, communications, and cost advantages while meeting the high standards of reliability required for the fire and security industry. AES-IntelliNet alarm monitoring systems are deployed at hundreds of thousands of locations in over 150 countries.

For more information
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