7788F/7744F Series Fire Subscribers

Overview

AES 7788F/7744F Series Subscribers are the ideal universal wireless communicators for any new or existing fire alarm system. AES-IntelliNet® networks are built using AES Corporation's patented mesh radio communications technology. A Smart Subscriber at each alarm site acts as transmitter, receiver, and repeater of alarm signals across the network. This creates a smart long-range radio network with multiple pathways between each alarm site and the central receiver. Multiple pathways mean multiple redundancies assuring the most reliable delivery of signals and compliance with rigorous industry standards. AES-IntelliNet networks self-adjust to network changes and assure that signals automatically follow the shortest path available as the network of Subscribers grows.

Key Features

- AES-IntelliNet smart mesh radio networks are self-forming, self-healing, and highly scalable.
- AES-IntelliNet alarm communications technology never sunsets compared to cellular alternatives.
- Each Smart Subscriber enables multiple paths to a central monitoring station.
- Option to transmit full data from FACP digital dialer to AES-MultiNet receiver.
- Simple and fast activation on AES-IntelliNet network.

Benefits

- Most stable and profitable fire alarm communication technology.
- Network owner-operators retain virtually all RMR.
- Meets UL 864 Commercial Fire Alarm requirements for primary standalone communication.
- Ideal drop-in full-function replacement for phone lines.
- Universal wireless Smart Subscriber Transceivers support all new and legacy FACPs.

Models

Legacy Fire Subscribers	
7788F	8-Zone Fire Subscriber, 8 Supervised Zones, Red Enclosure
7744F	4x4 Zone Fire Subscriber, 4 Reversing Polarity, 4 Supervised Zones, Red Enclosure
7788F-ULP	8-Zone Fire Subscriber, 8 Supervised Zones, includes 7794 AES-IntelliPro Full Data Module, Red Enclosure
7744F-ULP	4x4 Zone Fire Subscriber, 4 Reversing Polarity, 4 Supervised, includes 7794 AES-IntelliPro Full Data Module, Red Enclosure
7788F-ULP-P	8-Zone Fire Subscriber, 8 Supervised Zones, includes 7794 AES-IntelliPro Full Data Module, 7762 Hardware Supervisory Module, and 7740 Local Annunciator, Red Enclosure
7744F-ULP-P	4x4 Zone Fire Subscriber, 4 Reversing Polarity, 4 Supervised Zones, 7794 AES-IntelliPro Full Data Module, 7762 Hardware Supervisory Module, and 7740 Local Annunciator, Red Enclosure
7788F-C	8-Zone Fire Alarm Subscriber. ULC listed for Canada
7788F-C-ULP	7788F-C Fire Alarm Subscriber with 7794 AES-IntelliPro Full Data Module. ULC listed for Canada

Technical Specifications

DIMENSIONS
13.25"H x 8.5"W x 4.3"D
(34cm H x 21.5cm W x 11cm D)

WEIGHT
- Approx. 12.85 lbs (5.8 kilograms), with 12V 10Ah battery
- Approx. 5.8 lbs pounds (2.6 kilograms), excludes battery

RADIO FREQUENCY
Standard Frequency Range:
450-470MHz
Contact AES for other UHF and VHF frequencies

ANTENNA
2.5 db Tamper resistant antenna included

POWER INPUT
16.5V AC Class 2 Transformer
Transformer not included

BACKUP BATTERY
10 Ah with 7794; 5 Ah without, UL recognized lead acid gel cell battery
Size based on Subscriber configuration

CURRENT CONSUMPTION
Backup Battery Power
- Standby = .149A
- Transmit = .728A
- Optional 7794 =.160A, Standby and Alarm
- Optional 7762 = .015A

ALARM SIGNAL INPUTS
- 8 Individually programmable zones
- 4x4 Option with 4 individually programmable zones and 4 reverse polarity inputs

UL STANDARDS
- UL 864 Standard for Control Units and Accessories for Fire Alarm Systems, Edition 9
- UL 365 Standard for Police Station Connected Burglary Alarm Units and Systems
- UL 1610 Standard for Central Station Burglary Alarm Units

POWER OUTPUT
2 or 5 Watts
Contact AES for other options

OPERATING TEMPERATURE
32 to 122°F (0° to 50°C)

STORAGE TEMPERATURE
14 to 140°F (–10° to 60° C)

RELATIVE HUMIDITY
0 to 93% RHC, Non-Condensing

ANNUNCIATOR
Optional 7740 Local Annunciator

ANTENNA CUT/COMMUNICATION TROUBLE OUTPUT
Form C relay; fail secure; rated for 24 VDC 1A resistive

PROGRAMMING INTERFACE
Handheld programmer

PORTS
Serial Communication Port

RESET BUTTON
Located on main circuit board

ENCLOSURE MATERIAL
Metal with paint finish

FINISH COLOR
Red

VISUAL INDICATORS
LED indicators inside enclosure (ALM, Trouble, Tx, Rx, WA)

7788F/7744F_Rev4_10252023