ESL

WIRELESS SMOKE SERIES

Model Numbers

UL217: CADDX NX491, ITI 60-848-95
ESL 560 Series
UL268: CADDX NX492, ITI 60-849-95

LISTED

California State Fire Marshall Approved

All Models

• **Built-in drift compensation reduces false alarms**

• **Photoeletric 3V lithium battery wireless smoke detector for commercial & residential applications**

• **Field-replaceable optical chamber**

• **Built-in 85dBa temporal sounder**

Models 60-848/849-95 and NX-491/492 only

• **Learn Mode™**

• **ITI 319.5MHz crystal transmitter**

The ESL wireless stand-alone smoke alarms are the industry's first wireless smoke alarms with analog features such as remote maintenance/trouble reporting and drift compensation. The 560 family can be used as stand-alone units or can be listed for use with a transmitter.

Model numbers 60-848-95 and 60-849-95 use ITI Learn Mode™ technology. Learn Mode™ quickly establishes the unit's identity with the panel. To activate Learn Mode™ remove the unit from the base, or if the unit is already removed from the base, press and hold the test button until the panel signals the unit's program code has been "learned" in.

The ESL Series wireless smoke alarms continually monitor operational status and provide a visual trouble condition if they drift out of the sensitivity range or fail internal diagnostics. The series meets NFPA 72 field sensitivity testing requirements without the need for external meters. The alarm sensitivity level can be determined at the unit.

Built-in drift compensation, usually only available in analog systems, allows the alarm to adjust its sensitivity automatically as it becomes dirty over time. This feature dramatically increases the time between cleanings and reduces false alarms.

A built-in 85dBa temporal sounder is ideal for residential installations and other occupancies where people are sleeping.

ESL Stand-alone Smoke Alarms

Architectural and Engineering Specifications

The ESL 560 Series photoelectric smoke alarm can be used as a stand-alone device or listed with a transmitter. These wireless, self-diagnostic alarms monitor their own sensitivity and operational status.

The NX-491/492 and 60-848/849-95 units come complete with an ITI transmitter. The CleanMe® feature will send a signal to a control panel with compatible software and then to the central station to indicate the detector needs to be serviced.

Immediately upon the first power up and once a day, the alarm performs a full diagnostic test that includes a dynamic test of the sensing chamber and internal electronics. The alarm meets NFPA 72 field sensitivity requirements without the need for external meters. All of the wireless smoke detectors automatically adjust their sensitivity, up to a maximum of 0.5%/ft., as they become dirty. This feature increases immunity to dust and dirt by 30-50%.

All alarms include a built-in 85dBa sounder that will sound the ANSI temporal pattern until the smoke has cleared or the alarm has been silenced.

See installation instructions for information about correct installation and maintenance.

Installation Instruction Part Numbers

NX-491/492 .... (1034025)
60-848/849-95 .... 466-1814 (1033570)
560 .... (1034518)
570 .... (1031030)

Use with the following panels:

Caddx brand panels NX4, NX6, NX8, NX8E, and ITI panels Commander 2000 and Customs Versions with software versions 4.1 and later, CareTaker Plus and Custom Versions with software versions 3.1 and later, UltraGard and Custom Versions, Concord, Concord Express, Simon, and Advent.

Specifications:

Product Data

Voltage .... 3 VDC
Typical average standby current 25µA
Typical test current 2mA
Typical alarm current .... 70mA ±10%
Battery type .... 3VLithium,Duracell®DL123A, MN1500; Sanyo® and Panasonic® CR123A; Eveready Energizer® E91
Low battery threshold .... 2.7V causes low battery signal
Sounder .... 85dBa at 10', temporal pattern
Low battery beep rate .... 1 every 30 ±2 sec
Sensitivity .... 2.3% ±0.890%
Operating temperature .... 40°F-100°F (4.4°C to 38°C)
Operating humidity range ....0-95% non-condensing
*RF Immunity .... 20V/m minimum; 1-1000MHz
Color .... White
Alarm dimensions .... 5.5" x 2.3" (14 cm x 5.8 cm)
Base dimensions .... 4.88" x 0.38" (12.3 cm X 0.96 cm)
Drift compensation adjustment .... 0.5%/ft. max
Heat alarm specifications:
Rate of rise.. .... 15°F/min >105°F (8.3°C/min > 40.6°C)
Fixed .... 135°F ± 5°F (57.2°C ± 2.8°C)
*Transmitted signal types: .... alarm, restore, CleanMe®, low battery supervisory

NX-491/492 and 60-848/849-95 Additional Specifications

RF frequency .... 319.5 MHz
Transmitter ID ....Pre-programmed, 1 Million codes
Modulation type .... AM
Signal format .... PWM
Signal types:
Outputs .... alarm, restore, tamper, low battery, trouble, 1 hour supervisory
Approvals .... FCC Part 15, DOC

*Specifications only for 560 smoke alarm when listed with a transmitter. Please call OEM sales at 800.547.2556 for more information about transmitter compatibility.

Ordering Information

Model No.	Description	Listing
NX-492 (CADDX) 60-849-95 (ITI)	3V stand-alone smoke alarm, 2 batteries included; 85dBa sounder; 135 degree fixed /rate of rise heat alarm, with 319.5MHz transmitter	UL268
NX-491 (CADDX) 60-848-95 (ITI)	3V stand-alone smoke alarm, 2 batteries included; 85dBa sounder, with 319.5MHz transmitter	UL217
560S (ESL)	3V stand-alone smoke alarm, batteries not included; 85dBa sounder	UL217
560ST (ESL)	3V stand-alone smoke alarm, batteries not included; 85dBa sounder; 135 degree fixed /rate of rise heat alarm	UL217
562S (ESL)	3V stand-alone smoke alarm, 2 batteries included; 85dBa sounder	UL217
562ST (ESL)	3V stand-alone smoke alarm, 2 batteries included; 85dBa sounder; 135 degree fixed /rate of rise heat alarm	UL217
Accessories		
SM-200	Smoke! in a Can (canned smoke) for functional testing of smoke alarms	
SM-EXT1	Smoke! in a Can extension tube	
211	Replacement optical chambers (set of 10)	