



## ESL Battery Operated Smoke Detector

Supervised Wireless & Stand-Alone

### Overview

ESL battery operated photoelectric smoke detectors come in a variety of models for different applications. ESL offers both supervised wireless models and stand-alone models.

The supervised wireless models are available in two types. The residential supervised models can be used with all GE Interlogix control panels that support wireless devices and the commercial supervised wireless models can be used with Advent panels. Supervised wireless models ship with batteries, transmitters included, plus feature Learn Mode technology.

The stand-alone models can be shipped with batteries for use as non-system smoke detectors for use in various applications where an end-user chooses not to install a monitored smoke detector. Additionally, other manufacturers with proprietary transmitters and systems can use the stand-alone models when appropriately listed with UL.

All of the ESL battery operated photoelectric smoke detectors 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. Another feature is built in drift compensation that allows the alarm to adjust sensitivity automatically as it becomes dirty over time. The drift compensation feature dramatically increases the time between cleanings, as well as reduces false alarms.



ESL 560N

### Standard Features

- 3V Lithium battery operated
- Field-replaceable optical chamber
- Built-in 85dBa temporal sounder
- Built-in drift compensation
- Optional built-in heat detection

### Models 60-848-02-95 and NX-491NT only

- Learn Mode
- 319.5MHz crystal transmitter
- Alarm signal sent to central station on test
- Low battery pre-alarm sent to control station

### Model Numbers

UL217: NetworX NX-491NT, 60-848-02-95, ESL 560N Series  
UL268: 60-849-02-95, ESL 570N

# ESL Battery Operated Smoke Detector

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## Architectural and Engineering Specifications

The ESL 560N series battery operated smoke detectors monitor their own sensitivity and operational status by continuously verifying the integrity of the sensing chamber and internal electronics. The alarm meets the NFPA 72 field sensitivity requirements without the need for external meters. The series automatically adjusts sensitivity up to a maximum of 0.5%/ft., as they become dirty. This feature increases immunity to dust and dirt by 30-50%. Each of the models ships with a built-in 85dBa sounder that will sound the ANSI temporal pattern until the smoke has cleared or the unit has been silenced.

Note: The supervised wireless models include Learn Mode and CleanMe®. Learn Mode technology quickly establishes the detectors identity with the panel by removing the head from the mounting ring. When a CleanMe condition occurs, the detector transmits a trouble signal to the control, which in turn reports to the central station indicating the unit needs service.

Note: the 60-848-02-95 and NX-491NT shall annunciate locally in response to test, and notify the panel of a test rather than an alarm. Only after continued actuation of the test switch will an alarm be sent to the panel.

### Installation Instruction Part Numbers

60-849-02-95	(1039262)
60-848-02-95/NX-491NT	(1039261)
560N Series	(1039047)
570N	(1039260)

## Ordering Information

Model	Description	Listing
60-849-02-95	ESL supervised commercial wireless smoke detector, listed for use with Advent panels. Ships with built-in 85dBa sounder, 135° fixed/rate-of-rise heat alarm, transmitter & batteries.	UL268
NX-491NT (NetworX) 60-848-02-95	ESL supervised residential wireless smoke detector, for use with all GE Interlogix control panels. Ships with built-in 85dBa sounder, 135° fixed/rate-of-rise heat alarm, transmitter & batteries.	UL217
560NS	ESL 3V stand-alone smoke alarm. Ships with built-in 85dBa sounder.	UL217
560NST	ESL 3V stand-alone smoke alarm. Ships with built-in 85dBa sounder and 135° fixed/rate of rise heat alarm.	UL217
562NS	ESL 3V stand-alone smoke alarm. Ships with built-in 85dBa sounder & batteries.	UL217
562NST	ESL 3V stand-alone smoke alarm. Ships with built-in 85dBa sounder, 135° fixed/rate of rise heat alarm, & batteries.	UL217
570NS	ESL 3V commercial wireless OEM smoke, not a stand-alone device.	UL recognized
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)	
60-733	3V Lithium battery 6/pk	

## Specifications

<b>Voltage</b>	3VDC
<b>Typical average standby current</b>	35µA
<b>Typical test current</b>	2mA
<b>Typical alarm current</b>	70mA
<b>Battery type</b>	3V Lithium, Duracell® 123, Sanyo® and Panasonic® CR123A
<b>Low battery threshold</b>	2.7V causes low battery signal
<b>Sounder</b>	85dBa at 10', temporal pattern
<b>Low battery beep rate</b>	1 every 45 ± 2 sec
<b>Sensitivity</b>	2.3% ± 0.890%
<b>Operating temperature</b>	40°F to 100°F (4.4°C to 38°C)
<b>Operating humidity range</b>	0-95% non-condensing
<b>RF Immunity</b>	20V/m min; 1-1000MHz
<b>Color</b>	White
<b>Alarm dimensions</b>	5.6 x 2.4" (142 x 61mm)
<b>Base dimensions</b>	5.4 x 0.46" (137x 11.7mm)
<b>Drift compensation adjustment</b>	0.5%/ft. max
<b>Heat alarm specifications:</b>	
<b>Rate-of-rise</b>	15°F/min >105°F (8.3°C/min > 40.6°C)
<b>Fixed</b>	135°F ± 5°F (57.2°C ± 2.8°C)
<b>*Transmitted signal types:</b>	alarm, restore, CleanMe®, low battery supervisory
<b>Additional Specifications for NX-491T/60-848-02-95 and 60-849-02-95</b>	
<b>RF frequency</b>	319.5MHz
<b>Transmitter ID</b>	Pre-programmed, 1 million codes
<b>Modulation type</b>	AM
<b>Signal format</b>	PWM
<b>Signal types:</b>	
<b>Outputs</b>	alarm, restore, tamper, low battery, trouble, 1 hour supervisory

### Approvals

FCC Part 15, DOC, CE, C-UL-US, CSFM

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



GE Interlogix