

# EiA660 series - Multi-Criteria Smoke Alarm

## Key Features

- ▶ UL217, CAN/ULC-S531, UL268 Ready
- ▶ Highly reliable Photoelectric technology
- ▶ Fixed high temperature and ROR fast response thermistor sensor
- ▶ Temperature reporting capability
- ▶ Unique modular plug-in radio design
- ▶ Large EZ-Press™ Test/Hush button
- ▶ Automatic low battery indication
- ▶ Automatic smoke chamber status
- ▶ Built-in sounder – 85dBA at 3 meters
- ▶ LED Alarm indication
- ▶ Easy to install twist-on base design
- ▶ Micro-mesh insect screen
- ▶ 5 year warranty

## Product Description

The EiA660 Multi-Criteria Smoke Alarm uses high-reliability photoelectric sensing technology and fast acting thermistor based temperature sensing technology, providing quick warning of all standard domestic fire types, including smoldering fires other devices might take longer to detect.

A unique external 8 pin header design enables simple, plug-in interface with a wide range (frequency and/or protocol) of custom OEM radio modules. No need to open the housing or to solder ribbon cables.

EiA660 devices are specifically designed for simple & intuitive, time-saving installation, commissioning and maintenance. All necessary mounting hardware is included.

The large, ergonomic, easy-to-find, Test/Hush button enables full testing and the ability to temporarily silence false/nuisance alarms.

Patented, high-performance optical chamber with integral micro-mesh™ fixed insect screen further reduces the possibility of false alarms.

## Operation

The Alarm will activate the built in sounder upon sensing smoke particles, fixed high temperature or a ROR condition. The Alarm will automatically reset and silence once smoke particles are no longer present in the chamber and/or the temperature/ROR is back to normal.

The Alarm is programmed to self-check every 40 seconds its sensors, electronics and battery. Any fault found will be indicated by a combination of yellow LED flashes and chirps.

A single replaceable CR123A Lithium battery powers the Alarm, an additional battery can be added to extend battery life or power an RF Module.

Pressing and holding the Test/Hush button will perform a complete device test as well as sounding the horn.

If an EiA660 device has been activated due to a false/nuisance alarm, pressing the Test/Hush button will silence the alarm for 10 minutes.



## Technical Specification

<b>Sensor Types:</b>	<b>Thermistor:</b> High temperature range 135°F ± 4°F ROR: 15°F/min when >104°F <b>Photoelectric (Optical)</b>
<b>Radio Integration:</b>	Plug-in 8 Pin header
<b>Integrated head removal tamper switch:</b>	When head is removed a signal can be sent to the panel/hub via the RF module
<b>Sound Level:</b>	Minimum output 85dBA at 3m. The sounder contacts are soldered directly to the piezo disc for additional security
<b>Button Test:</b>	Checks the sensors, electronics, battery and horn
<b>Silence function:</b>	Silences nuisance alarm (automatically resets after approximately 10 minutes)
<b>Supply Voltage:</b>	1 x CR123A battery. Provision is made for a second optional CR123A battery.
<b>LED Indicators:</b>	RED - Power up, button test, in alarm, in hush, memory, YELLOW - Power up, low battery, sensor fault, end of life
<b>Operating Temperature Range:</b>	40°F to 100°F <sup>1</sup>
<b>Storage Temperature Range:</b>	14°F to 104°F <sup>1</sup>
<b>Humidity Range:</b>	15 % to 95 % Relative Humidity (non-condensing)
<b>Product dimensions:</b>	4.53" x 2.17" or 115mm x 55mm
<b>Weight:</b>	8.64 ounces or 245g (Includes packaging)
<b>Warranty:</b>	5 year (limited) warranty
<b>Approvals:</b>	



Manufactured to ISO 9001 quality standards  
Specifications are subject to change




<sup>1</sup> Temperature and Humidity conditions are for normal operation and storage. Units will function outside these ranges as required by the specific Product Standards. However, extended exposure to conditions outside these ranges may affect product life. For advice on prolonged operation outside these ranges consult the manufacturer.

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## SmartTemp+™

In addition to standard High-Temp (135 degrees F) and Rate-of-Rise heat alarm functions, Ei Electronics EiA660 Combination Photoelectric Smoke/Heat and EiA630 Fast Response Thermistor-based Heat Alarms are now available with powerful SmartTemp+® Customizable Temperature Reporting Capability. Access to real-time temperature data stored in EiA660 & EiA630 alarm heads allows OEM's to create and transmit a unique range of fully customizable temperature alerts utilizing their own Proprietary RF Wireless Communication Modules. The range of custom temperature based alerts that OEM's can create is virtually unlimited. For example; Custom "Freeze Warning" alerts can be generated to prevent pipes from freezing or to inform of potentially life threatening cold when a low temperature set-points (chosen by OEM) are reached. Custom "Rapidly Falling Temperature Warning" alerts can be generated to notify users in the event of rapid indoor temperature drops, indicative of a possible break-in, or a door or window inadvertently being left open. "Ambient Temperature" at each alarm head can also be reported out in real-time via each device's wireless communication module. The added capability built into every Ei Electronics SmartTemp+® device offers OEM's and their customer's advanced, value-added life and property protection features that leave the competition out in the cold.

## Model variations

Product	Short Description
EiA660W	Base model
EiA660iW	Base model with AudioLINK 
EiA660RF	Base model with Ei Electronics RadioLINK+ module fitted 
EiA660iRF	Base model with Ei Electronics RadioLINK+ module fitted and AudioLINK  

### AudioLINK®

Ei Electronics new AudioLINK feature is a means of extracting event data from the alarm to a specially design Smart Phone App. The phone application is specifically design to interpret the sound and convert it into meaningful event driven data.

### RadioLINK+®

The EiA660RF Alarms communicate wirelessly with Ei Electronics Alarms and accessories via the preinstalled EiA600MRF module using our proprietary RadioLINK protocol .