

# Learn Mode Supervised Wireless Photoelectric Smoke Detector

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The Learn Mode Supervised Wireless Photoelectric Smoke Detector is self-diagnostic and includes an integrated Learn Mode 319.5 MHz crystal transmitter. It has a self-contained sounder, a low- battery annunciator, a status LED, and integrated fixed-temperature and rate-of-rise heat sensors.

## Functions

### Self-diagnostics and automatic drift compensation

The smoke detector continually monitors operational status and provides a visual trouble indication (LED) if it drifts out of sensitivity range or fails internal diagnostics. The built-in drift compensation feature allows the detector to automatically adjust sensitivity as the optical chamber becomes dirty over time.

### Learn Mode technology

Each device has a unique, programmed identity. Control panels recognize and learn the identity of each device in the system, eliminating programming errors in the field.

- ▶ Self-diagnostics and automatic drift compensation reduce the chance of nuisance alarms
- ▶ Learn Mode feature reduces installation time
- ▶ Two 3 V lithium batteries provide long battery life
- ▶ Mounting base tamper sends trouble signal if detector is removed

### Low battery indication

If the power level drops below 2.7 V, a low battery trouble signal is sent to the control panel and the built-in sounder begins to beep once every  $45 \pm 2$  sec.

## Certifications and approvals

GE holds these listings and approvals:

Region	Certification	
USA	UL	UTGT: Single- and Multiple-station Smoke Alarms (ANSI/UL217)
	CSFM	7257-1657:0242

## Installation/configuration notes

### Compatibility Information

Receivers	RF3226 Quik Bridge Receiver
	Quik Bridge Learn Mode Loop Receiver (P/N: 60-660-01-95R)
	D208RF Receiver Expander
	D216RF Receiver Expander

**Parts included**

Quant.	Component
1	Smoke detector
1	Smoke cover
2	3 V lithium batteries
1	Hardware pack
1	Literature pack

**Technical specifications****Electrical**

Recommended Battery Types:	Duracell 123, Panasonic CR123A, SANYO CR123A
Voltage:	3 VDC
<b>Current</b>	
• Alarm:	70 mA typical
• Average Standby:	0.035 mA typical
• Test:	2 mA typical

**Environmental**

Relative Humidity:	0 to 95%; non-condensing
Temperature (operating):	+4°C to +38°C (+40°F to +100°F)
Sensitivity:	2.3±0.890%
Drift Compensation:	0.5%/ft maximum
Sounder:	85 dB at 10 ft; temporal pattern
<b>Sensors</b>	
• Fixed:	+57.2±2.8°C (+135±5°F)
• Rate-of-Rise:	8.3°C/min > +40.6°C (15°F/min > +105°F)

**Mechanical**

Color:	White
<b>Dimensions</b>	
• Detector:	142 mm x 61 mm (5.6 in. x 2.4 in.)
• Base:	137 mm x 12 mm (5.4 in. x 0.46 in.)
Radio Frequency:	319.5 MHz
Bandwidth:	24 kHz

**Transmission Characteristics**

Radio Frequency	319.5 MHz
Modulation Type:	AM

Signal Format:	Pulse-width modulation
RF Immunity:	20 V/min minimum; 1 MHz to 1000 MHz

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**Ordering information****Learn Mode Supervised Wireless Photoelectric Smoke Detector**

Self-diagnostic smoke detector with integrated Learn Mode 319.5 MHz crystal transmitter  
Order number **TX-6010-01-1**

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