Photoelectric Smoke Alarm

AH 562A • 120V AC • 9V battery backup • Hardwired interconnection

Photoelectric smoke alarm designed to reduce nuisance alarms. Battery backup provides protection during power outages. Supports multi-station hardwired interconnection.

Product specifications

Sensor / product life	Photoelectric / 10 years after manufacture
Supply voltage	120V AC, 60 Hz, 60 mA maximum
Alarm current	30 mA maximum
Battery backup	Replaceable DC 9V carbon-zinc battery
Specified batteries	Gold Peak GP1604S; EVEREADY 1222
Battery lifetime	1 year
Indicators	Green LED: AC power; red LED: alarm / fault
Alarm indication	Sound and light
Sound level	85 dB at 10 ft
Mounting	Ceiling or wall
Operating temperature	40°F (4.4°C)–100°F (37.8°C)
Storage temperature	–4°F (–20°C)–122°F (50°C)
Storage humidity	10–95% RH, non-condensing
Protection rating	IP20
Housing / flame rating	PC / V-0, 5VA
Body color	Siter white
Dimensions / weight	Ø144 × 38 mm / approximately 235 g, including battery
Protection area	Maximum 40 m² within a room

Certification and standards

Certification authority: ETL
Approved standards: UL 217:2020, Edition 9 + revision 07 Oct 2022; CAN/ULC S531:2019, Edition 4
RoHS / REACH: Yes

Alarm operation and status signals

Power-on	Red LED flashes once; no audible indication.
Standby	AC power: green LED continuously on. DC power: red LED flashes approximately every 40 seconds.
Weekly test	Press TEST/SILENCE once a week when no alarm is present and the sensor is normal. Red LED follows the test alarm pattern: 3 beeps ramping to full sound, pause, then 3 beeps ramping to full sound.
Smoke alarm	Red LED follows alarm pattern; repeating 3 beeps, pause.
Interconnected alarm	Repeating 3 beeps, pause. No visual indication specified.
Alarm silence	Red LED flashes once every 8 seconds; no sound. Silence lasts approximately 8 minutes.
Alarm memory	Red LED flashes twice every 8 seconds; no sound. Memory retained for 24 hours. Press test button to clear.
Low battery	Red LED flashes once every 40 seconds; simultaneous chirp every 40 seconds. Replace battery as soon as possible. Press TEST/SILENCE to silence for approximately 10 hours.
Low-battery silence	Red LED flashes once every 40 seconds; no sound. Silence lasts approximately 10 hours.
Sensor error	Red LED flashes once every 40 seconds; chirp every 40 seconds, out of sync with LED. Remove, dispose of, and replace unit as soon as possible. Press TEST/SILENCE to silence for approximately 10 hours.
Sensor-error silence	Red LED flashes once every 40 seconds; no sound. Silence lasts approximately 10 hours.
End of life	Red LED flashes 3 times every 40 seconds; 3 chirps every 40 seconds. Remove, dispose of, and replace unit as soon as possible.

Controls and indicators

1	TEST/SILENCE button
2	Buzzer
3	Red status indicator
4	Green AC status indicator

Dimensional drawing

Dimensions in millimeters • Diameter 144 mm • Depth 38 mm

