

Features

SKU A4098-9757 QuickConnect2 sensor design provides:

- TrueAlarm photoelectric analog sensing and IDNet two-wire addressable communications combined into one assembly
- Quick and easy connection to a A4098-9788 base (required, ordered separately)
- Operation for ceiling or wall mounting
- Operation for use with Autocall models 4007ES, 4010ES, 4100ES with IDNet 2 and IDNet 2+2 Modules
- UL listed to Standard 268

QuickConnect2 sensors communicate to the control panel to provide the following TrueAlert analog sensing operation features:

- Smoke sensitivity that is accurately maintained at the selected level (determined by the control panel)
- 4007ES, 4010ES, and compatible 4100ES/4100U Series control panels provide seven levels of sensitivity from 0.2% to 3.7%/ft of obscuration (refer to page 2 for application details)
- Sensitivity monitoring that satisfies NFPA 72 sensitivity testing requirements
- Automatic environmental compensation
- Automatic, once per minute individual sensor calibration check verifies sensor integrity
- Ability to display and print detailed sensor information in plain English language
- Tracking of excessive dirt accumulation

A4098-9788 base provides stationary wiring terminals and quick snap-in sensor connections:

- Mounting is on a 4" square, 4" octagonal, or single gang box (supplied separately)
- 4098-9832 Adapter Plate is available for retrofit and certain mounting methods (refer to page 2)

Functional and architecturally styled chamber enclosure details:

- Louvered design enhances smoke capture by directing flow to chamber
- Entrance areas are minimally visible when ceiling mounted
- Chamber is easily accessible for cleaning
- Designed for EMI compatibility
- Internal magnetic test feature that activates alarm

Integral red LED (with red lens) indicates:

- Power-on when pulsing, Alarm or Trouble when steady on (a remote LED is not supported)
- Refer to data sheet AC4098-0019 for sensor bases that support remote LED connections and additional TrueAlarm analog detection features

Description

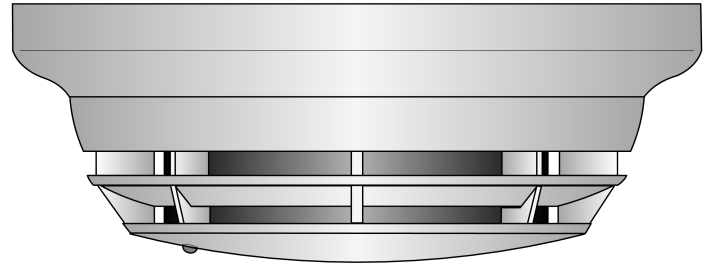


Fig 1: A4098-9757 QuickConnect2 TrueAlarm Sensor Mounted in A4098-9788 Base

For applications that only require basic TrueAlarm features, the A4098-9757 QuickConnect2 sensor provides addressable analog sensing in a cost-effective compact package. The control panel monitors and maintains the selected sensitivity of the A4098-9757 as well as providing automatic compensation for environmental conditions such as dust, dirt, and component degradation, and TrueAlarm data capture for each sensor.

QuickConnect2 Mounting.

Wiring connections are made to the A4098-9788 base which provides a secure and quick connection for the A4098-9757 sensor. Sensor and communications electronics are contained in the A4098-9757 sensor assembly.

Sensor Alarm and Trouble LED Indication.

The control panel also determines when individual sensors need cleaning. Dirty sensors, or other sensor troubles, will automatically be annunciated at the control panel and that sensor's LED will light steadily. In an alarm condition, the alarmed sensor's LED will light steadily. (LED operation is controlled by the panel. During system alarm, a sensor LED that was lit to indicate trouble will return to pulsing to conserve communications power as long as it is not in alarm.)

Sensor Locations

Sensor locations should be determined only after careful consideration of the physical layout and contents of the area to be protected. Refer to NFPA 72, the National Fire Alarm and Signaling Code. On smooth ceilings, spacing of 30 ft (9.1 m) may be used as a guide.

For detailed installation information, refer to 574-709AC, *A4098 Detectors, Sensors, and Bases Application Manual*. For mounting base A4098-9788 installation instructions, defer to 574-706AC, *A4098 Smoke/Heat Base Installation Instructions*.

QuickConnect2 Sensor Product Selection

Table 1: Sensor and Base

| SKU | Description | Compatibility |
|-------------|--------------------------------|-----------------------------------------------------------------------|
| A4098-9757* | QuickConnect2 TrueAlarm Sensor | Requires A4098-9788 base (ordered separately) |
| A4098-9788 | Mounting base for A4098-9757 | Required , one for each A4098-9757 sensor (ordered separately) |

Table 2: Adapter Plate

| SKU | Description | Compatibility |
|-----------|---------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 4098-9832 | Adapter Plate | Required for mounting to surface mounted boxes and 4" square, flush mounted boxes May be used when retrofitting to existing bases |

* Model number **GSA44098-9757** complies with the Trade Agreement Act and appears in the GSA schedule.

Specifications

| Specification | | Rating |
|---------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power and Communications | | IDNet communications, auto-selected, 1 address per base |
| Address Allocation | | One address per sensor |
| IDNet Channel Capability | | Up to 250 sensors/devices per channel |
| IDNet Connections on A4098-9788 Base | | Screw terminals for in/out wiring and shield continuity connection, 18 to 14 AWG (0.82 to 2.08 mm ²) |
| Sensitivity | with 4007ES, 4010ES, 4100ES with IDNet 2 or IDNet 2+2 Modules | Panel selectable from 0.2 to 3.7%/ft obscuration; standard sensitivities are 1.5%, 2.0%, 2.5%, and 3.7%; sensitivities of 0.2%, 0.5%, and 1% are for special applications in clean areas Note: For detailed application information including sensitivity selection, refer to Installation Instructions 574-709AC |
| Air Velocity Range | | 0-2,000 ft/min (0-610 m/min) |
| UL Listed Temperature Range | | 32° to 100° F (0° to 38° C) |
| Operating Temperature Range | | 32° to 122° F (0° to 50° C) |
| Storage Temperature Range | | 0° to 140° F (-18° to 60° C) |
| Humidity Range | | 10% to 95% RH from 32° to 122° F (0° to 50° C), non-condensing |
| Color | | Frost White |
| Dimensions | | Refer to A4098-9757 Mounting Information on page 3 |

A4098-9757 Mounting Information

This illustration shows the mounting of the A4098-9757 QuickConnect2 TrueAlarm sensor to the A4098-9788 base.

Electrical Box Requirements:

4" octagonal or 4" square, 1-1/2" deep;
single gang, 2" deep

