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DF-51311 E-200

CP300(A) Addressable Ionization Detector

Section: Addressable Devices

GENERAL

The CP300 Addressable Ionization Detector is used with the **Fire-Lite MS-9200** to sense products-of-combustion and report the measured level of such products to the control panel. The CP300 is also compatible with Fire-Lite's new **MS-9600** Addressable Fire Alarm Control Panel and can be used on retrofit applications where CP300 detectors exist.

Since this detector is addressable, it will help emergency personnel quickly locate a fire during its early stages, potentially saving precious rescue time while also reducing property damage.

FEATURES

SLC Loop

- 2-wire loop connection.
- Easy wiring via removable 6-pin terminal block allows for detector to be removed from system without loss of power to remaining loop.

Addressing

- Addressable by device.
- Direct Decade 01-99 entry of address.

Architecture

- Unique unipolar dual chamber provides exceptional stability.
- Compact, stylish design.
- Built-in functional test switch features push-pin activation.
- Integral communications and built-in type identification.
- Built-in tamper-resistant feature.
- Removable terminal block.
- Removable cover and insect-resistant screen for field cleaning.

Operation

- Withstands air velocities up to 1,500 feet-per-minute without triggering a false alarm.
- Factory preset at 1.5% nominal sensitivity for panel alarm threshold level.
- Visible LED "blinks" when the unit is addressed and latches on in alarm.

Mechanicals

- Sealed against back pressure.
- Direct surface mounting or electrical box mounting.
- Mounts to: single-gang box, 3.5" or 4" octagonal box, or 4" square electrical box (using a plaster ring).



California State Fire Marshal
7271-0075:156 (CP300)



MEA
3-94-E (CP300)



Other System Features

- Fully coated circuit boards and superior RF/transient protection.
- 94-V0 plastic flammability rating.
- Low standby current.

Options

- Remote LED output connection (Part No. RA400Z).

APPLICATIONS

Use ionization detectors in life-safety applications to provide a broad range of fire-sensing capability, especially fast, flaming fires. Where smoldering fires are anticipated, a photoelectric sensor may provide faster response.

CONSTRUCTION

These detectors are constructed of LEXAN® in an off-white color. The CP300 direct-wire series of smoke detectors are designed to commercial standards and offer an attractive appearance.

LEXAN® is a registered trademark of GE Plastics, a subsidiary of General Electric Company.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Fire-Lite Alarms, One Fire-Lite Place, Northford, Connecticut 06472. Phone: (800) 627-3473, Toll Free FAX: (877) 699-4105, FAX Back: (888) 388-3299.



Made in the U.S.A.

INSTALLATION

The CP300 Plug-In Detectors use a separate mounting bracket to simplify installation, service and maintenance. Mount base on box which is at least 1.5 inches (3.81 cm) deep. Suitable boxes include:

- 4" (10.16 cm) square box with plaster ring.
- 4" (10.16 cm) octagonal box.
- 3.5" (8.89 cm) octagonal box.
- Single-gang box.

NOTE: *Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class "B") wiring.*

OPERATION

Each CP300 uses one of 99 possible addresses on the MS-9200 Signaling Line Circuit (SLC). It responds to regular polls from the system and reports its type and status.

The CP300 Addressable Ionization Sensor's unique unipolar chamber responds quickly and uniformly to a broad range of smoke conditions and can withstand wind gusts up to 1,500 feet-per-minute without sending an alarm level signal. Because of the unipolar chamber, the CP300 is approximately two times more responsive than most ionization sensors. This makes it a more stable detector.

SPECIFICATIONS

Voltage range:	15 - 28 VDC (peak).
Standby current:	150 μ A @ 24 VDC.
LED current:	7 mA @ 24 VDC (latched "ON").
Air velocity:	1500 ft./min. (7.6 m/sec.) maximum.
Diameter:	5.0 inches (12.7 cm).
Height:	3.0 inches (7.6 cm).
Temperature:	0° - 49°C (32° - 120°F)
Relative humidity:	10% - 93% non-condensing.

PRODUCT LINE INFORMATION

CP300	Addressable Ionization Sensor.
CP300A	Same as above with ULC listing.
RA400Z	Remote LED. Mounts to a single-gang box.