



**Fire-Lite® Alarms**  
INCORPORATED

February 7, 1997

E-200

**CP300(A)**  
**Addressable Ionization Detector**

Section: Addressable Devices

**GENERAL**

The CP300 Addressable Ionization Detector is used exclusively with the Fire-Lite MS-9200 to sense products-of-combustion and report the measured level of such products to the control panel. 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.



S1059  
(CP300)



ML369  
(CP300A)



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



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**MEA**

3-94-E (CP300)

**FEATURES**

- Unique unipolar dual chamber provides exceptional stability.
- Factory preset at 1.5% nominal sensitivity for panel alarm threshold level.
- Fully coated circuit boards and superior RF/transient protection.
- Withstands air velocities up to 1,500 feet-per-minute without triggering a false alarm.
- Addressable by device.
- Direct Decade 01-99 entry of address.
- 2-Wire loop connection.
- Visible LED "blinks" when the unit is addressed and latches on in alarm.
- Integral communications and built-in type identification.
- Compact, stylish design.
- Built-in functional test switch features push-pin activation.
- Low standby current.
- Listed to UL-268.
- Built-in tamper-resistant feature.
- Designed for direct surface mounting or electrical box mounting.
- Sealed against back pressure.
- 94-V0 plastic flammability rating.
- Removable cover and insect-resistant screen for field cleaning.
- Remote LED output connection.
- Mounts to: single-gang box, 3.5" or 4" octagonal box, or 4" square electrical box (using a plaster ring).
- Removable terminal block.
- Easy wiring via removable 6-pin terminal block allows for detector to be removed from system without loss of power to remaining loop.



**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.

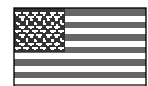
LEXAN® is a registered trademark of GE Plastics, a subsidiary of General Electric Company.

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. Phone: (203) 484-7161 FAX: (203) 484-7118



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**ISO-9001**  
Engineering and Manufacturing  
Quality System Certified to  
International Standard ISO-9001



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

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

## PRODUCT LINE INFORMATION

<b>Model</b>	<b>Description</b>
<b>CP300</b>	Addressable Ionization Sensor.
<b>CP300A</b>	Same as above with ULC listing.
<b>RA400Z</b>	Remote LED. Mounts to a single-gang box.