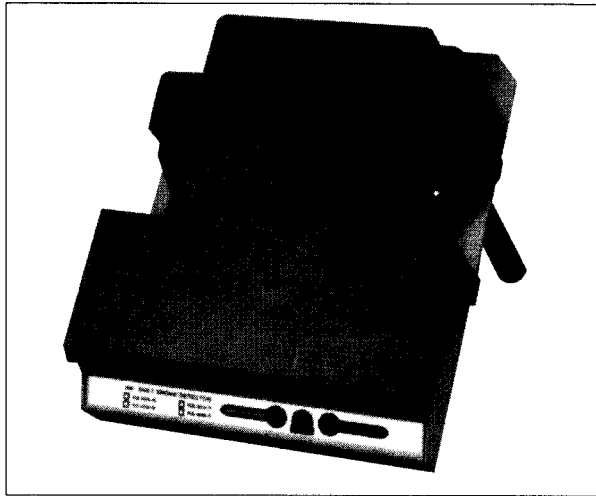




PROFESSIONAL FIRE SYSTEMS

Division of Hochiki America Corporation

HA-UNI-(X) DUCT SMOKE DETECTOR



Standard Features

- Interchangeable photo or ion head
- 115VAC/24VAC/24VDC one model
- New UL268 listing
- Installation without cover removal
- Filtering included in detector head
- Only three standard tube lengths required
- Factory set tube alignment
- Built-in power supply
- Two independent form "C" alarm contacts
- Built-in power supervisory relay
- Rugged steel backbox with plastic cover
- Pilot/alarm L.E.D
- Manual test/reset switch
- Made in U.S.A.
- YBA-MAP base

Applications

The HA-UNI series duct smoke detectors provide early detection of smoke and products of combustion present in air moving through an HVAC duct. These devices are designed for prevention of smoke recirculation in areas by the air handling systems. Fans, blowers and complete systems may be shut down in the event of smoke detection. This universal voltage model will operate on any one of three input voltages (115VAC, 24VAC, or 24VDC).

The unit may utilize a photoelectric or ionization detector head. Each unit contains two (2) form "C" alarm contacts and one (1) form "C" trouble contact.

Visual indicators (power and alarm) are mounted on the housing front for status indication. A manual test/reset switch is provided on the front of the detector.

Operation

Air sampling is accomplished by two tubes that protrude into the duct. An exhaust tube of one standard length (7.5") is provided with each unit. The intake sampling tube should extend across the full width of the duct (intake tubes ordered separately). The unit is mounted using the supplied template and four sheet metal screws.

When sufficient smoke enters the sampling chamber, the detector will alarm causing the two form "C" alarm contacts to switch. Reset is accomplished by interrupting the power on the 24VDC model and by pressing the reset button on the 115VAC/24VAC models.

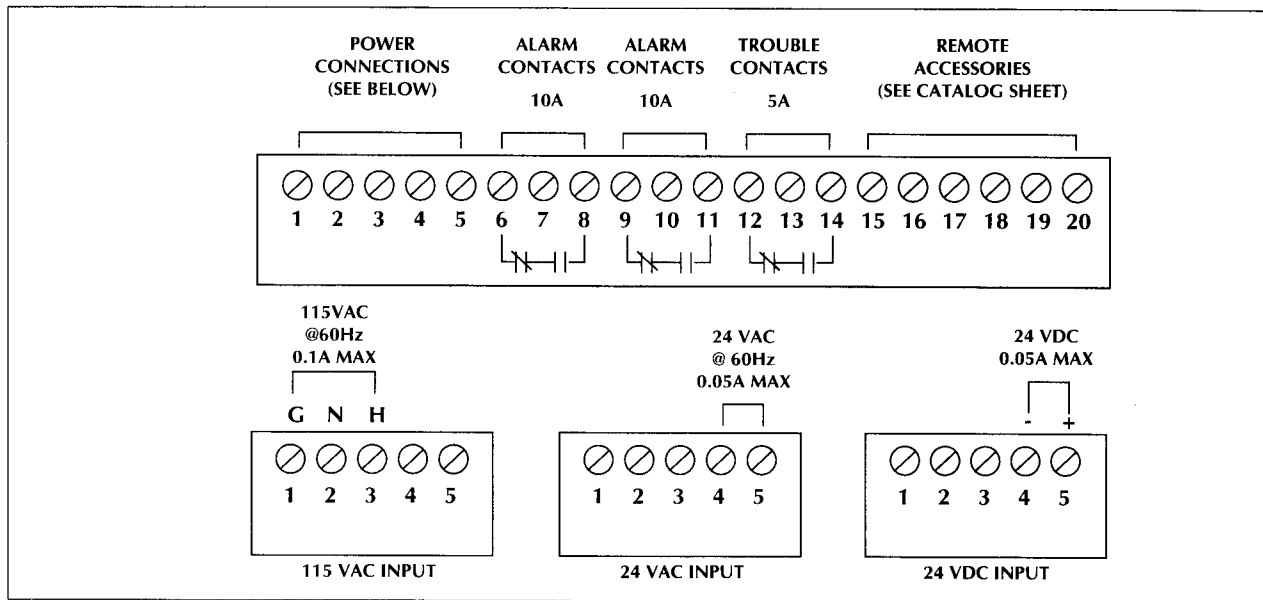
PROFESSIONAL FIRE SYSTEMS • Division of Hochiki America Corporation

5415 Industrial Drive, Huntington Beach, CA 92649 • Phone (714) 898-0795 • FAX (714) 892-2809

Specifications subject to change without notice

July 10, 1991

HA-UNI-(X) DUCT SMOKE DETECTOR



Product Specifications

Model Numbers:	HA-UNI-N – 115 VAC, 24 VAC or 24 VDC (ionization) HA-UNI-P – 115 VAC, 24 VAC or 24 VDC (photoelectric) STS-2.5 – sampling tube for 6" to 2.5" duct widths STS-5.0 – sampling tube for 2.5' to 5.0' duct widths STS-10.0 – sampling tube for 5.0' to 10.0' duct widths
Power Requirements:	115 VAC operation @ 5 mA standby, 15 mA alarm 24 VAC operation @ 20 mA standby, <u>50 mA alarm</u> 24 VDC operation @ 20 mA standby, 50 mA alarm
Relay Contact Rating:	Alarm contacts, two form "C" @ 10.0A @ 115 VAC resistive Trouble contacts, one form "C" @ 5.0A @ 115 VAC resistive
Radioactive Element:	For HA-UNI-N only, Americium 241; 0.5μCuries
Air Velocity:	500 to 3,000 ft./min.
Approval standard:	Underwriter Laboratories listed (UL268A)
Temperature Range:	30° to 120°F (0° to 49°C)
Humidity:	10% to 85% relative humidity
Material:	18 gA. steel backbox, plastic ABS-94VO cover
Finish:	Textured grey finish
Net Weight:	4.0 lbs.
Mounting:	Template and required hardware supplied
Dimensions:	10" H x 8.25" W x 2.25" D (25.4cm H x 21cm W x 5.7cm D)

Engineering Specification

Air duct smoke detectors shall be Professional Fire Systems' HA-Series. The ionization model number will be HA-UNI-N and the photoelectric will be HA-UNI-P. The Detectors shall be listed with Underwriter Laboratories per UL268A. The detectors shall operate at air velocities from 500 to 3000 ft./min. The duct detector housings shall be of metal construction and complete mechanical installation may be performed without removal of detector cover. Visual indication of alarm and power shall be provided on front of detector

mounted at a 30° slant to provide a wide viewing angle. A manual reset switch shall be provided on the front of the unit. Detector heads shall not require additional filters and screens, which must be maintained. The housing shall contain a detector base, which will accept photoelectric or ionization heads. Terminal connections shall be screw type and a minimum size of #6. Terminals shall be provided for remote power and alarm indication.

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