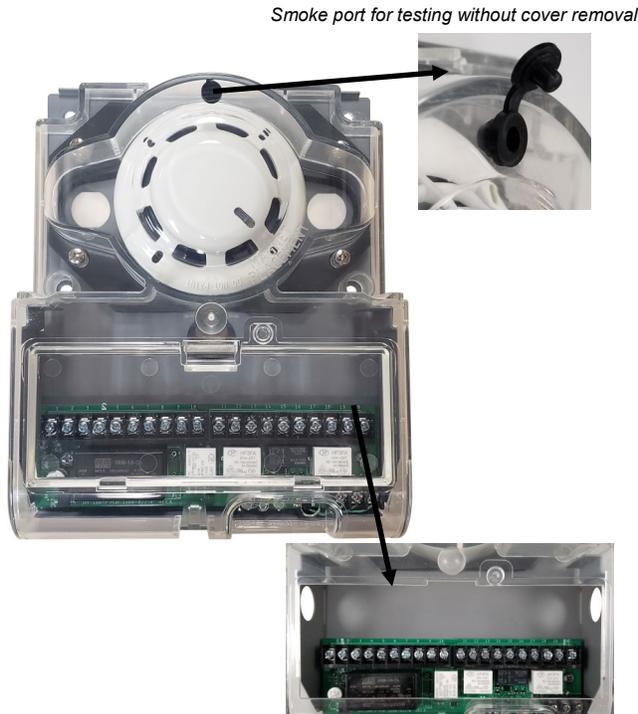


## DH-100-P - Conventional Duct Smoke Detector



### STANDARD FEATURES

- New Rugged Durable Housing
- Easy Smoke Testing Port
- Removable Terminal Cover
- Durable Steel Base, Silicone Gaskets, Polycarbonate Housing
- Compatible with building automation and fire alarm systems
- Installs quickly and easily
- No screens or filters to clean
- UL 268A Listed

### APPLICATION

The HOCHIKI AMERICA DH-100-P 4-wire duct smoke detector provides early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial, Industrial and Residential applications. The DH-100-P is designed to prevent the recirculation of smoke in areas by the air handling systems, fans and blowers. Complete systems may be shut down in the event of smoke detection. The HOCHIKI AMERICA DH-100-P operates on 120VAC, 240VAC, 24VAC, or 24VDC and has no compatibility restrictions.

### PRODUCT LISTINGS



California State  
Fire Marshal  
3240-0410:0155

### SPECIFICATIONS

<b>Duct Detector</b>	Model: DH-100-P	P/N: 0200-09410
<b>Detector Head</b>	Model: SOC-24DH	P/N: 0200-10090
<b>Input Voltage / Current</b>	Alarm	24VDC 78mA   24VAC 370mA   115AC 48mA   230VAC 31mA
<b>(includes SOC-24DH, and Remote Accessories)</b>	Normal Standby	24VDC 20mA   24VAC 263mA   115AC 15mA   230VAC 10mA
<b>Operating Temperature Range</b>	Inside Duct	0°C (32°F) ~ 38°C (100°F)
	Housing Ambient	0°C (32°F) ~ 49°C (120°F)
<b>Detector Head Type</b>	Conventional Photoelectric	
<b>Standby Current</b>	20mA @ 24VDC	
<b>Alarm Current</b>	78mA @ 24VDC	
<b>Alarm Contacts</b>	2 form C rated 10A @ 115/230 VAC 7A @ 28VDC	
<b>Test Method</b>	Test Switch or Smoke Port or Magnet	
<b>Air Velocity</b>	1000 to 4000 ft/min.	
<b>Sensitivity</b>	1.36-2.33%/FT @ 4000FPM	
<b>Visual Indicator (Status LED)</b>	PILOT: Green - Normal   Off - Shutoff/Detector Missing	
	ALARM: Off - Normal   Yellow - Check Voltage / Detector Head   Red - Alarm	
<b>Storage Temperature Range</b>	-30°C (-22°F) ~ 70°C (158°F)	
<b>Ambient Temperature</b>	0°C (32°F) to 38°C (100°F)	
<b>Humidity</b>	10% to 93% Relative Humidity (non-condensing)	
<b>Maximum Relative Humidity</b>	93% Relative Humidity (non-condensing)	
<b>Environment</b>	Indoor dry use only, Mount to Duct Side or Top	
<b>Housing Material</b>	18 G.A. steel backbox, clear plastic cover	
<b>Finish</b>	Grey Paint	
<b>Dimensions</b>	7.5"W x 9.5"H x 2.5"D	
<b>Weight</b>	Approximately 3.0lb	
<b>Sampling Tubes</b>	2.5 Foot	Model: STS-2.5 P/N: 0400-01580
	5 Foot	Model: STS-5.0 P/N: 0400-01590
	10 Foot	Model: STS-10.0 P/N: 0400-01570

Specifications subject to change without notice.

## DH-100-P - Conventional Duct Smoke Detector

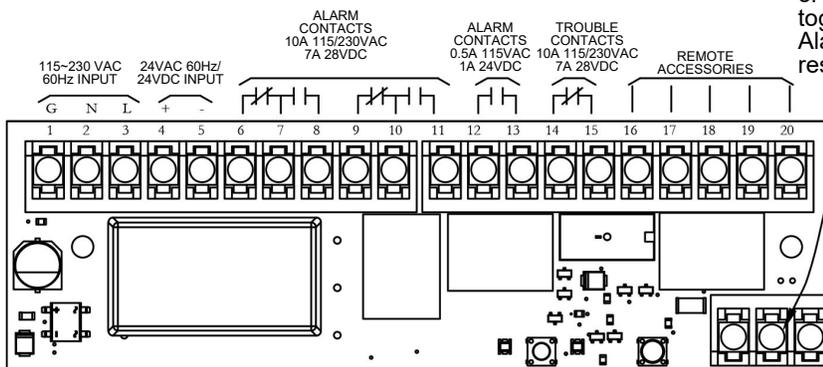
### PRODUCT DESCRIPTION

The DH-100-P is designed and built to meet all local requirements, as well as the NFPA regulations regarding duct smoke detectors. The DH-100-P is provided with a local test button, and output terminals for remote status indicators and test switches. Air sampling is accomplished by two tubes which protrude into the duct. The 7.5" exhaust tube is supplied with the duct smoke detector unit. Once the duct width has been determined the air intake sampling tubes must be ordered. Sampling tubes are supplied in three standard lengths 2.5ft., 5 ft. and 10ft. and cut to size to fit the duct.

### ELECTRICAL INSTALLATION

Wiring must conform to applicable local codes, ordinances and regulations covering these types of devices. Wire the detectors according to the engineering drawings for the particular job requirements. These detectors are not intended for open area protection, nor should they be used for open air protection. Refer to NFPA 90A and NFPA 72 for general and additional information on Duct Smoke Detectors concerning operation and installation. Terminals are suitable for up to #14 gauge wire.

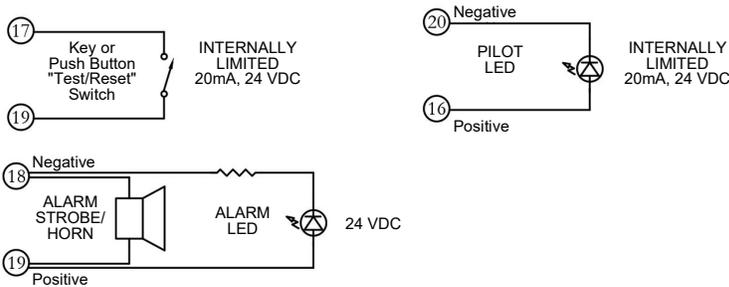
### WIRING DIAGRAMS



All contacts are shown in normal supervisory condition. Alarm contacts will toggle during alarm or test switch activation. Trouble contacts will toggle to trouble condition if detector is removed. Alarm contacts must be reset by pressing the reset switch after activation.

**FACTORY WIRED TERMINALS. DO NOT ADJUST.**

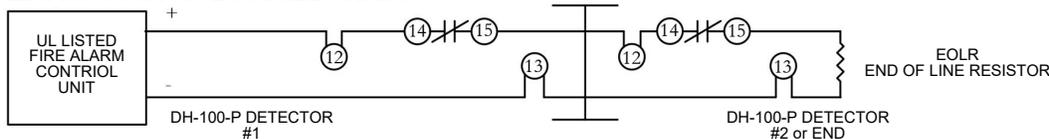
### REMOTE ACCESSORY WIRING



### COMPATIBLE REMOTE ACCESSORIES

Model Number	Product Description
<b>MS-RA</b>	Remote Alarm LED
<b>MS-RA/P</b>	Remote Alarm LED & Pilot LED
<b>MS-RA/R</b>	Remote Alarm LED & Push Button Test/Reset Switch
<b>MS-RA/P/R</b>	Remote Alarm LED, Pilot LED, & Push Button Test/Reset Switch
<b>MS-KA/R</b>	Remote Alarm LED & Key-Operated Test/Reset Switch
<b>MS-KA/P/R</b>	Remote Alarm LED, Pilot LED, & Key-Operated Test/Reset Switch

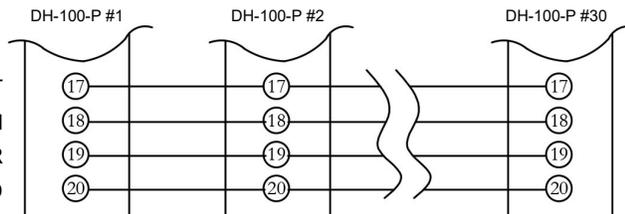
### FIRE ALARM CONTROL PANEL WIRING



### COMMON FUNCTION WIRING

Up to 30 units may be interconnected for all alarm relays to operate with a single alarm. Terminals 17 and 19 are optional

- REMOTE COMMON TEST/RESET
- REMOTE COMMON ALARM
- REMOTE COMMON AUX POWER
- COMMON AUX GROUND



\* Individual Remote Pilot LED's must be installed to monitor detector head or power source removal for each unit.