

Fenwal Smoke Detectors

***Tough and Reliable
with Great Looks
at a Low Cost***



The latest line of Fenwal Smoke Detectors offers exactly what today's demanding customer is seeking: more reliability for less money, great aesthetics and significant cost savings in maintenance. Designed and tested under extreme conditions of heat, cold and humidity, Fenwal Smoke Detectors are UL/ULC Listed and FM, CSFM & MEA approved. Available in ionization, photoelectric or thermistor heat/photoelectric models, these Detectors are ideally suited to all types of commercial, institutional and industrial applications.

ADVANTAGES/BENEFITS

INPLACE SENSITIVITY TESTING

All three Fenwal Smoke Detectors offer inplace sensitivity measurement in % per foot obscuration that satisfies NFPA 72 and is UL Listed

- ***Faster and more economical way to test detector readiness***

LOW PROFILE STYLING

Fenwal Smoke Detectors reflect the latest in surface mount design technology, combining functional performance with sleek styling

- ***Aesthetically pleasing and unobtrusive smoke detection***

REMOTE TEST CAPABILITY

An optional Remote Test Switch enables fast, easy testing of detectors located in hard-to-reach spots (ducts, high ceilings, etc.)

- ***Reduced maintenance costs***

BACKWARD COMPATIBILITY

The latest Fenwal Smoke Detectors are mechanically and electrically backward compatible with previous series Fenwal bases without rewiring and can even be mixed and matched on the same initiating loop

- ***Easy retrofitting or system expansion***

WIDE RANGE OF OPERATING VOLTAGES

Fenwal Smoke Detectors have the ability to accept a wide range of voltage—from 10.2 to 36.8 Vdc, when using the 2WB base

- ***More versatile application***

CHOICE OF DETECTION METHODS

Select the precise detection method—ionization, photoelectric or photoelectric/thermistor combination—that's right for each application

- ***Superior smoke detection matched to the application***

COST EFFECTIVE DETECTION

Fenwal Smoke Detectors incorporate customer-pleasing features and economical maintenance at very affordable cost, in the present and future.

- ***Easy to specify today, easy to own tomorrow***

PROVEN FENWAL QUALITY

There's only one brand of smoke detector that has a better than 20-year record for continuous product improvement, on-the-job reliability and superior customer service

- ***Assure the most value... specify Fenwal Smoke Detectors***





	IONIZATION MODEL CPD-7051	PHOTOELECTRIC MODEL PSD-7155	PHOTO W/HEAT MODEL PSD-7156
A - Detector Height	1.38" (35 mm)	1.38" (35 mm)	1.89" (48 mm)
B - Base Height	0.43" (11 mm)	0.43" (11 mm)	0.43" (11 mm)
C - Detector Diameter	3.90" (99 mm)	3.90" (99mm)	3.90" (99 mm)
D - Base Diameter	5.90" (150 mm)	5.90" (150 mm)	5.90" (150 mm)

SPECIFICATIONS

	IONIZATION MODEL CPD-7051	PHOTOELECTRIC MODEL PSD-7155	PHOTO w/HEAT MODEL PSD-7156
Standby Voltage (using 2WB)	10.2 to 36.8 Vdc	10.2 to 36.8 Vdc	10.2 to 36.8 Vdc
Standby Voltage (using 4WRB)	16.8 to 36.8 Vdc	16.8 to 36.8 Vdc	16.8 to 36.8 Vdc
Maximum Ripple	50% of DC input	50% of DC input	50% of DC input
Standby Current	45µA (typical) 100µA peak at 24 Vdc	55µA (typical) 100µA peak at 24 Vdc	55µA (typical) 100µA peak at 24 Vdc
Startup Current	0.1mA max.	0.1mA max.	0.1mA max.
Alarm Current	100mA max.	100mA max.	100mA max.
Alarm Indicator	LED	LED	LED
Operating Temperature Range	32°F (0°C) to 100°F (37.8°C)	32°F (0°C) to 100°F (37.8°C)	32°F (0°C) to 100°F (37.8°C)
Relative Humidity Range	0 to 93% (non-condensing)	0 to 93% (non-condensing)	0 to 93% (non-condensing)
Reset Voltage	3V (typical) min.	3V (typical) min.	3V (typical) min.
Reset Time	1.0 second max.	1.0 second max.	1.0 second max.
Startup Time	20 seconds max.	20 seconds max.	20 seconds max.
Alarm Voltage	5.5V (typical)	5.5V (typical)	5.5V (typical)
Finish	High impact plastic, off white	High impact plastic, off white	High impact plastic, off white
Approvals	UL (268, 268A), FM, ULC, CSFM, MEA	UL (268, 268A), FM, ULC, CSFM, MEA	UL (268, 268A), FM, ULC, CSFM, MEA
UL Sensitivity	0.75 - 1.75%/ft.	1.47 - 3.75%/ft.	1.47 - 3.75%/ft.
Compatibility ID	I51FE1	P55FE1	P56FE1

ACCESSORY ITEMS

- Model ST-001 Smoke Detector Sensitivity Tester for performing "inplace" sensitivity testing and measurement.
- Model DH-60 and DH-60(2W) Duct Detectors for use in air handling duct applications to sample air and detect smoke particles. DH-60 provides 2 auxiliary contacts for shutdowns. Operates on 24 Vdc, 24 Vac, 120 Vac, and 240 Vac. The DH-60(2W) works only in conjunction with a 24 Vdc fire alarm control panel.
- Test Magnet
- RA-911 Remote Alarm Indicator



ST-001 Sensitivity Tester & DH-60 Duct Detector



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If you need more information on this product, or if you have a particular problem or question, contact