

Duct Smoke or Carbon Monoxide Detectors



■ Detectors are 24VDC, 24VAC, 120VAC & 230VAC

Smoke Detectors—Suitable for high temperature applications and feature an internal dust filtering system that requires no additional screens or filters to clean. Models are universal voltage and you can interconnect up to 30 units. 45JU29 has an innovative, toolless design that allows for quick installation and eases the loading and unloading of sampling/exhaust tubes. 45JU40 is designed for no- or low-flow special applications and plenum spaces. 45JU42 is weathertight, corrosion resistant, and has a NEMA 4X rating.

Carbon Monoxide Detector—Unit can initiate an air handling unit shutdown when the CO concentration reaches a level considered hazardous by NFPA and OSHA standards.

Accessories—45JU30 features lightweight, sectional tubes that you can connect together for the required length. 45JU57 and 45JU35 feature a multicolor LED to indicate Alarm, Pilot, and Trouble status. 45JU57 is mounted in a white, single-gang cover plate. 45JU35 is mounted in a white, double-gang plate with a sounder strobe assembly with a clear lens.



Description	Ambient Temp. Limits (°F)	Air Vel. (fpm)	For Use With	Mfr. Model	Item No.
Smoke Detectors					
Photoelectric, Universal	32 to 140°	100 to 4000	All APC	SL-2000-P	45JU29
Photoelectric, Universal	32 to 140°	500 to 4000	Remote	SM-501-P	45JU44
Photoelectric, Plenum	32 to 140°	0 to 3000	Operation	HS-100-P	45JU40
Photoelectric, Weathertight	-4 to 140°	100 to 4000	Accessories	RT-3000-P	45JU42
Carbon Monoxide Detector					
Kit, Includes (3) 18 in Fast Tube, (4) Screws, 8 in Fast Exhaust Tube, Mounting Template, MSR-50/CO Remote Accessory, Notched Fast Tube Starter Piece, SL-701 Duct CO Detector	32 to 158°	100 to 4000		SL-701 KIT	45JU38

Description	Duct Width (ft.)	For Use With	Mfr. Model	Item No.
Accessories (Cont.)				
Sampling Tube with Notch	0.5 to 1	SL and RT Series Smoke Detectors	STN-1.0	45JU45
	1 to 3		STN-2.5	45JU46
	3 to 5		STN-5.0	45JU47
Sampling Tube	0.5 to 10	SM Series Smoke Detectors	STN-10.0	45JU31
	0.5 to 1		STS-1.0	45JU48
	1 to 3		STS-2.5	45JU50
	3 to 5		STS-5.0	45JU51
	5 to 10		STS-10.0	45JU49
Weatherproof Enclosure	—	SL Series Smoke Detectors	WP-2000	45JU56
Remote Horn with Pilot & Alarm LED	—		MS-RH/P/A	45JU37
Remote Key Test Station with Pilot & Alarm LED	—		MS-KA/P/R	45JU58
Remote Horn, Key Test Station with Pilot, Alarm & Trouble LED	—	All APC Duct Smoke Detectors	MS-RH/KA/P/A/T	45JU34
Remote Horn, Key Test Station with Pilot & Alarm LED	—		MS-RH/KA/P/R	45JU36
Remote Key Test Station with LED Indicating Alarm, Pilot and Trouble	—		MSR-50RK/W	45JU57
Remote Key Test Station with LED Indicating Alarm, Pilot and Trouble Sounder Strobe	—		MSR-50RKAV/W/C	45JU35

Description	Duct Width (ft.)	For Use With	Mfr. Model	Item No.
Accessories				
Smoke Detector Head Replacement, Photoelectric	—	All APC Duct Smoke Detectors	55000-328APO	45JU32
Smoke Detector Tester, Aerosol	—	SM Series or open area Smoke Detectors	TG-1500	45JU52
Smoke Detector Tester, Aerosol with Nozzle	—	SL and RT Series Smoke Detectors	TG-2500	45JU53
Carbon Dioxide Detector Tester, Aerosol	—	SL-701 Series or open area CO Detectors	TG-701	45JU54
Sectional Sampling Tube, Pk. 3	1 to 8	All APC Duct Smoke Detectors	FAST TUBE	45JU30

Duct Smoke Detectors



■ Detectors are 24VDC and 120VAC, except 2GWK9 and 5CGZ1 are also 24VAC

Feature 4-wire photoelectric integrated low air flow technology and versatile square or rectangular mounting. 415F91 has an integrated smoke test port and the sampling tube is durable corrosion-resistant steel. Innovative tube allows easy, toolless installation from the front or back of the detector.



Item	Duct Width (ft.)	Ambient Temp. Limits (°F)	Air Vel. (fpm)	For Use With	Mfr. Model	Item No.
Photoelectric Duct Smoke Detectors						
Universal	—	-4° to 158°	100 to 4000	—	D4120	2GWK9
Smoke Detector	—	-4° to 158°	100 to 4000	All System Sensor Remote Test Accessories, Fire Alarm Panel	DUCTSD	415F91
Photoelectric, Watertight	—	-4° to 158°	100 to 4000		5CGZ1	5CGZ1
Accessories						
Multi Signaling Unit	—	14 to 140	—	D4120W, Mfr. No. D4120	RTS2-AOS	5CGZ2
Multi Signaling Unit	—	14 to 140	—	D4120W, D4P120, D4S, Mfr. No. D4120	RTS2	35Z779
Photoelectric Power Board	—	-4° to 158°	100 to 4000	Mfr. No. D4P120, RTS2, DST Sampling Tubes	D4P120	35Z776
Photoelectric Sensor	—	-4° to 158°	100 to 4000	Mfr. No. D4P120, RTS2, DST Sampling Tubes	D4S	35Z775
Sampling Tube	Up to 1ft	—	—	D4120W, D4S, Mfr. No. D4120	DST1	35Z777
Sampling Tube	1 a 2	—	—	D4120W, D4S, Mfr. No. D4120	DST1.5	2GWL2
Sampling Tube	2 a 4	—	—	D4120W, D4S, Mfr. No. D4120	DST3	2GWL3
Sampling Tube	4 to 8	—	—	D4120W, D4S, Mfr. No. D4120	DST5	2GWL4
Sampling Tube	8 to 12	—	—	D4120W, D4S, Mfr. No. D4120	DST10	35Z778
Strobe Light	—	14 to 140	—	Mfr. No. RTS2	AOS	35Z780

Duct Smoke Detectors



Systems continuously sample air flow within the HVAC duct and alert of combustion activity within the duct to help prevent smoke from circulating throughout the duct system.

FOR 4-WIRE SMOKE DETECTOR SYSTEMS

Base Controller and Sensor with RJ45 Connections 1EYB5—Duct smoke detector comes with a Detector Assembly and a Controller in separate housings to ease access to either the detector or controller without disturbing the other device. Detector Assembly has a standard RJ45 modular interconnection and a standard sampling tube with mounting holes. Controller can be interconnected to up to 15 controllers and a single controller can accommodate up to 2 detector assemblies. They

also have standard connections to ease coupling to other compatible detectors.

Base Controller 16X427 and Sensor 16X434—Allow connectivity via an RJ45 connection for a complete duct smoke detector system.

Base Controller 16X428 and Sensor 16X435—Models allow connectivity via a wire terminal for a complete duct smoke detector system.

FOR 2-WIRE SMOKE DETECTOR SYSTEMS

Base System with Integrated Sensor 16X425—Unit includes a Smoke Sensor with differential sensing for reliable and stable sensitivity. Detector Assembly has a sampling tube that can be installed with or without the cover in place and can be rotated in 45° increments.



Description	Ambient Temp. Limits (°F)	Air Vel. (fpm)	Mfr. Model	Item No.
For 4-Wire Smoke Detector Systems				
Base Controller and Sensor with RJ45 Connections	-20 to 158	100 to 4000	SD-4WJ	1EYB5
Base Controller with RJ45 Connection	-4° to 158°	—	SD-CJ	16X427
Sensor with RJ45 Connection	-4° to 158°	100 to 4000	SD-SJ	16X434
Base Controller with Wire Terminal Connection	-4° to 158°	—	SD-CJ	16X428
Sensor with Wire Terminal Connection	-4° to 158°	100 to 4000	SD-ST	16X435
For 2-Wire Smoke Detector Systems				
Base System with Integrated Sensor	-4° to 158°	100 to 4000	SD-2W	16X425
Accessories				
Keyed Remote Test Station for 4-Wire System	2 in	Mfr. No. SD-4WJ	SD-TRK4	1EYC1
Magnetic Remote Test Station for 4-Wire System	2 ¾ in	SD-4WJ	SD-TRM4	16X442
Keyed Remote Test Station for 2-Wire System	2 ¾ in	SD-2W	SD-TRK	16X440
Magnetic Remote Test Station for 2-Wire System	2 ¾ in	SD-2W	SD-TRM	16X441
Magnet Trigger required for Magnetic Remote Test Stations	—	SD-2W, SD-4WJ, SD-SJ, SD-ST	SD-MAG	16X430
4-Wire RJ45 Wiring Harness	5 ft	SD-4WJ, SD-CJ, SD-SD	SD-RJ5	16X433
	10 ft	SD-4WJ, SD-CJ, SD-SD	SD-RJ10	16X431
	15 ft	SD-4WJ, SD-CJ, SD-SD	SD-RJ15	16X432