

Matrix B-Unsprinklered

General Category	Type	Component	Manufacturer	Model	Design Notes	Required Locations or Use	Special Installation Requirements	Action
Fire Alarm Control Units and Accessories	Fire Alarm Control	Fire Alarm Control Panel	Potter	AFC-1000	If smoke control is required coordinate panel and manufacturer alternative with PPS.	Must be installed in the MDF, if available.	Install 72" top of panel AFF	
					Fire panel to use the IP communicator for offsite notification.			
					Provide 20% spare addresses, minimum.			
		Main Fire Alarm Annunciator	Potter	RA-6500R (F)		Locate in main office visible from secretary's desk	Install top of annunciator 60" AFF. Set system address to "31"	
		SLC Expander Modules	Potter	PAD100-SLCE		In Remote power supplies	SLCEs are to be powered by power expanders, not the fire alarm control panel. Maximum of two SLCEs per power expander.	
		Power Expander	Potter	PSN-1000 (E)		Locate in equipment rooms.	Install 72" top of panel AFF	
		Power Supplies	Altronix	AL600ULPD4CB	For non-fire alarm components, when needed, e.g., door hold opens.	Locate in equipment rooms.	Install 72" top of panel AFF	
				Provide with battery backup.				
	EVACS Controls: Large, intermediate, and Small Schools	Voice Evacuation Panel	Potter	PVC-MP	Use distributed system for any intermediate to large schools, e.g., high schools.	Locate in main office visible from secretary's desk adjacent to annunciator.	Install 72" top of panel AFF	
					System to be capable of connecting to the Informacast system and Cisco phone system.			
					Zone voice systems to include floors, wings, cafeteria, commons, auditorium and similar large spaces.			
		Distributed Evacuation Panels	Potter	PVC-DP		Locate in equipment rooms.	Install 72" top of panel AFF	
		Voice Evacuation Panel	Potter	100M or 200M	OK to use for small schools.	Locate in equipment rooms.	Install 72" top of panel AFF	
					System to be capable of connecting to the Informacast system and Cisco phone system.			
Local Operating Console (LOC)		Potter	PVX-RM8 or PVX-RM16		Locate in main office visible from secretary's desk adjacent to annunciator.	Install top of LOC at 60" AFF.		
Amplifiers		Potter	PVX-100 or PVX-200					

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Initiating Devices and Accessories	Manual Pull Stations	Manual Pull Stations	Potter	PAD100-PSDA	Provide with protective guard when located in student accessible locations.	Provide within 5 feet of the entrance to building exits.	Semi flush for concealed wiring/conduit applications.	Alarm	
						Provide within 5 feet of pathways to open or enclosed stairs, even if not considered building exits.	Wiremold V5748 box for surface applications.		
							Provide at locations as needed to insure travel distances no greater than 200 feet.	4-s backbox with 1-gang mud ring for conduit applications	
								Mount with operating handle at 48" AFF.	
		Protective Guard	STI	STI-1130	Provide with protective guard when located in student accessible locations.				
	Spot Smoke Detection	Spot Smoke Detection	Potter	PAD100-PD	Install at the ceiling in all rooms and spaces for a total coverage system as defined by NFPA 72 except where smoke detectors are not suitable due to the ambient environment or where ceiling heights exceed 16 feet AFF.		Hallways and corridors		Alarm
							Rooms with door hold opens		
							At the top of each stairway		
							Any room leading to a corridor or stairwell excluding office, work rooms, and classrooms		
							Add Alternate: Classroom Detection		
		Detector Base	Potter	PAD100-6B					
		Protective Guard	STI		Provide smoke detector with protective guard when located in areas where subject to damage e.g., multipurpose rooms.				
	Beam Smoke Detection	Beam Smoke Detectors	System Sensor	BEAM1224S	Use in areas suitable for smoke detectors with ceilings more than 16 feet AFF using NFPA 72 spacing criteria.		Gyms		Alarm
							Multipurpose Rooms		
							Cafeterias		
		Remote Test Switch	System Sensor	RTS151KEY	Provide for all Beam Smoke Detectors			4-s backbox with 1-gang mud ring	
							Locate in nearby, secure, accessible location.		
			Protective Guard	STI	STI-9706 or 9707	Provide beam smoke detector with protective guard when located in areas where subject to damage e.g., gyms, multipurpose rooms, etc.			

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Initiating Devices and Accessories	Heat Detection - Rate of Rise	Heat Detection - Rate of Rise	Potter	PAD100-HD	Use in areas identified and other areas not suitable for smoke detectors.	Home Economics rooms		Alarm
						Shop Areas		
						Mechanical Rooms		
						Art and Crafts Rooms		
						Science Rooms		
						Restrooms with Showers		
						Elevator Shafts (when required by code)		
						Crawl spaces used for storage		
						Attic spaces used for storage		
					Areas not suitable for smoke detection due to use of space and not suitable for rate of rise applications due to potential large temperature fluctuations.			
		Detector Base	Potter	PAD100-6B				
	Heat Detection - Fixed Temperature	Heat Detection - Fixed Temperature	Potter	PAD100-HD	Use in areas identified and not suitable for smoke detectors or rate-of-rise type heat detectors.	Boiler rooms		Alarm
						Kitchens		Alarm
						Generator rooms		Alarm
						Areas exposed to sunlight (skylights)		Alarm
						Kiln Rooms		Alarm
						Areas not suitable for smoke detection due to use of space.		Alarm
		Detector Base	Potter	PAD100-6B				
Other	Duct Smoke Detector	Potter	PAD100-DUCT		In locations where required by code.		Supervisory	
	Duct Smoke Sensor	Potter	PAD100-DD					

