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Addressable Multisensor with Speaker Model – AA105MDS



Features:

- ✓ Real time smoke and temperature info
- ✓ Built-in smoke sensor, thermal sensor and speaker
- ✓ Soft addressing
- ✓ Electrical supervision
- ✓ Corrosion protection
- ✓ Contamination alarm
- ✓ Sensitivity alteration from the panel

Complied with:

UL 268-6th Edition 521-7th Edition EN 54-Part 5 54-Part 7

IS 11360 & 2175

Overview:

This digitally controlled addressable speaker unit with multisensor detector designed to be used for automatic fire detection and voice evacuation, public address system by complying with fire safety standard and National Building Code NBC2016. The unit is aesthetically designed compact and detachable unit from base having white polycarbonate housing.

This unit delivers dual function as PA speaker, smoke and heat detection. It benefits reduction of additional speaker, cables, control panel and cost.

Every unit is controllable using its ID, which enables targeted area speaker for voice paging and leaving other area undisturbed.

Control panel routes power, audio signal and transmit/receive control signal using 2 core cables to this unit.

Multisensor detector in this device is intended to be used for addressable automatic fire detection system to detect presence of smoke, smoke density and abnormal temperature for

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fire alarm. This combined function of smoke and heat sensor (Multisensor detector) detects abnormal level smoke & heat and raises an alarm which continuously interacts with control panel to update the real time smoke and temperature exists at reported location.

This sensor measures the smoke/temperature level in protected areas and analyses the level of smoke/temperature and verify with alarm level setting. When smoke/temperature level crosses the set level, it communicates to fire warning system control panel along with its ID. This smoke sensor works on photoelectric principle. It consists of special LED to illuminate the smoke chamber. This LED illumination level gets reduced due to its aging. Hence its sensitivity may go out of sensitivity range. Therefore it requires a periodical calibration to ensure its functional objective. Refer IS 2189 for more details. The unit is aesthetically designed compact detachable unit from base having white polycarbonate housing.

Specifications

Electrical specifications

Operating voltage	17-24V DC
Quiescent current	200uA
Alarm current	20mA

Indication

Normal	Green LED (Blinks during scan)
Alarm	Red LED (Glows steady)

Mechanical specifications

Dimensions (DxH)		Weight (g)	
Without	100x53mm	Without	90g
base		base	
With	100x72mm	With base	140g
base			

General specifications

Smoke sensitivity	0.5 - 3.5 %obs/foot
SHOKE SELISITIVITY	0.3 - 3.3 /\dus/100t
Thermal sensitivity	20ºC to 60ºC
Operating	0ºC to 49ºC
temperature	
Storage temperature	5ºC to 40ºC
Sound Level	80dB at 1m
Humidity	0-95% RH (Non-
	condensing)
Colour	White
Housing	Polycarbonate
Compatibility	AU101X Protocol
Contact Clamp	Stainless steel

Termination diagram:

