pyronics



PYR-FA-CHA-MD

MULTI-SENSOR SMOKE AND HEAT DETECTOR

The PYR-FA-CHA-MD is a plug in point-type multi-sensor photoelectric smoke and heat rate compensation detector with an internal microprocessor supporting two-wire advanced communication and electronic coding. The detector communicates with the fire alarm control panel in real-time the smoke concentration data, the detector status as well as receives and executes control commands from the fire alarm control panel.

KEY FEATURES

- Modern Design and Feel
- Low-Profile
- Electronic Addressing via Handheld Programmer
- Temperature, Humidity and Dust Accumulation Drift Compensation
- Saves the Latest 100 Events on Device
- Polarity Insensitive for Ease of Installation and Maintenance
- Built-in Dual LED Indicator for Clear 360° Viewing
- Uniquely Advanced Optical Sensing Chamber and Heat Rate Compensation Sensing Technology Engineered to Sense Smoke and Heat Twice as Fast from a Wide Range of Combustion Sources and with Less False Alarms.
- 3 Year Warranty



SPECIFICATIONS

GENERAL

Technology Microprocessor Based

Sensing Method Photoelectric using Optical Sensing

Chamber and Heat Rate

Compensation

Addressing Software Addressing 100 Latest Events Memory

2 Wire (Polarity Insensitive) Wiring **Drift Compensation** 5 Levels (Automatic) I FD Dual LED for 360° Visibility Base Twist and Lock Base

PERFORMANCE

Modes of Operation Smoke

> A2R Heat A2S Heat

Smoke and A2R Heat Smoke and A2 Heat

Detection Speed * 12 Seconds Temperature Alarm 57 °C ± 3 °C

Air Velocity 0 to 20 Meters / Second Ceiling or Side Wall Mounting

15.2 Meters (Center to Center) Spacing **

Insect Screen Yes **EMI Protection** Yes

ELECTRICAL

Operating Voltage 24 V (Pulse Modulation)

Standby Current 300 µA

Alarm Current 1.5 mA (Without remote LED Indicator) 3.5 mA (With remote LED Indicator)

MECHANICAL

Material High Impact Durable Engineered Polymer **Dimensions** φ 100 mm x 46 mm (Diameter x Height)

Weight 123 gm (Including Base)

ENVIRONMENTAL

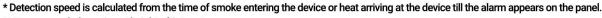
Indoor Installation Only Application -10 °C to +55 °C **Operating Temperature** -20 °C to +60 °C Storage Temperature

0 to 95% (Relative Humidity) Humidity

REGULATORY

Certification LPCB according to EN54-7 and EN54-5

CE Declaration



^{**} Recommended spacing at height of 3.1 meters.

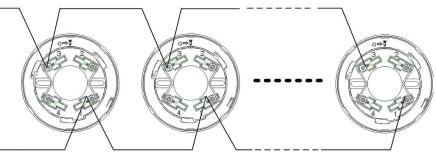






WIRING





Point 1 is Control Panel / Next Device Terminal
Point 2 is the Remote LED Indicator -ve Terminal
Point 3 is Control Panel / Next Device Terminal
Point 4 is the Remote LED Indicator +ve Terminal

ORDERING INFORMATION

| Model | Description |
|---------------|--------------------------------------|
| PYR-FA-CHA-MD | MULTI-SENSOR SMOKE AND HEAT DETECTOR |
| PYR-FA-CHA-DB | STANDARD DETECTOR BASE |





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