



600 Series Heat Detectors

601, 602, 603, 604
Single Circuit Heat Detectors
621, 622, 623, 624
Dual Circuit Heat Detectors

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DESCRIPTION

The Series 600 Heat Detector is attractive, durable and features combination rate-of-rise and fixed temperature operation. Heat detectors are available in 135°F and 200°F temperature ratings.

Rate-of-rise detects heat by quickly responding to a rapid temperature increase. Rate-of-rise units have a wide spacing allowance of 50-foot centers. See specification table for details.

Fixed temperature reacts to heat by responding to a specific temperature setting.

Series 600 Detectors use the same reliable pneumatic rate-of-rise element of former models, but offer added esthetic appeal.

The pneumatic rate-of-rise element responds to a rapid rise in temperature, approximately 15°F. 8°C) per minute, by expansion of air within the sealed chamber faster than it can escape through a calibrated vent. The resultant increase in pressure depresses the diaphragm, causing the electrical contact to close the circuit.

The fixed temperature element uses a fusible alloy. When activated, the external heat collector drops away to provide quick visual confirmation that the element has operated.

The units protrude only 1-3/8 inch from the ceiling surface with a junction box mounting. They have pleasing contours and an all-white finish that conforms to ceiling aesthetics.

Installation

Each detector includes a patented reversible mounting plate. In one position, it easily attaches to 4" square junction box, 3.25" or 4" octagonal box, or plaster ring.

In reverse, the plate can be used for open wiring without a junction box. A 1/4" space between detector and mounting surface allows for wire connections. All mounting screws are concealed.



600 Series

The detector attaches easily to the mounting plate with a push and twist motion. No tools are required.

Mounting plate is molded of white self-extinguishing thermoplastic rated at 221°F (105°C). The plate is extremely strong yet adapts to uneven mounting surfaces.

Test Methods

Models 601/621 and 602/622 can be tested by the quick application of heat from any convenient source. A portable hair dryer is recommended. However, do not apply heat that exceeds the fixed temperature rating of the detector. Models 603/623 and 604/624 cannot be tested. However, the fusible alloy element used is considered so reliable that testing is not necessary.

FEATURES

- UL, ULC, MEA Listed; FM and CSFM Approved
- Rate-of-rise and Fixed Temperature
- One or Two Circuit, Normally Open
- Easy Installation
- Low Profile
- Visual Indication
- Operation testing
- Manufactured by Chemtronics



600 Series

Conventional Heat Detectors

ORDERING INFORMATION (Single Circuit)

Model No.	Description
601	Heat Detector, ROR & Fixed @ 135° F (57° C), Single Circuit (1 NO Contact)
602	Heat Detector, ROR & Fixed @ 200° F (94° C), Single Circuit (1 NO Contact)
603	Heat Detector, Fixed @ 135° F (57° C), Single Circuit (1 NO Contact)
604	Heat Detector, Fixed @ 200° F (94° C), Single Circuit (1 NO Contact)

ORDERING INFORMATION (Dual Circuit)

Model No.	Description
621	Heat Detector, ROR & Fixed @ 135° F (57° C), Dual Circuit (2 NO Contacts)
622	Heat Detector, ROR & Fixed @ 200° F (94° C), Dual Circuit (2 NO Contacts)
623	Heat Detector, Fixed @ 135° F (57° C), Single Circuit (1 NO Contact)
624	Heat Detector, Fixed @ 200° F (94° C), Dual Circuit (2 NO Contacts)

SPECIFICATIONS

Electrical Ratings:

6-125VAC, 3.0 Amps
6-28 VDC, 1.0 Amps
125 VDC, 0.3 Amps
250 VDC, 0.1 Amps

Use:

Heat detectors should be used for property protection. Reliance should not be placed on heat detectors for Life Safety.

Dimensions:

4 9/16" W (round) x 1 3/8"D

Mounting:

3 1/4" Octagonal Box or 4" square

Model 601 and 621

No Marking
Model 601 (1 circuit)
Model 621 (dual circuit)



Model 602 and 622

Gray Ring
Model 602 (1 circuit)
Model 622 (dual circuit)



Model 603 and 623

Gray Spot
Model 603 (1 circuit)
Model 623 (dual circuit)



Model 604 and 624

Gray Ring and Dot
Model 604 (1 circuit)
Model 624 (dual circuit)



Rate-of-Rise and Fixed Temperature, 135°F (57°C)

Rate-of-Rise and Fixed Temperature, 200°F (94°C)

Fixed Temperature only, 135°F (57°C)

Fixed Temperature only, 200°F (94°C)

Applications: Normal temperature fluctuations and ceiling temperatures not exceeding 100°F (38°C)

Applications: Normal temperature fluctuations and ceiling temperatures exceeding 100°F (38°C) but not 150°F (66°C)

Applications: Unusually violent temperature fluctuations and ceiling temperatures not exceeding 100°F (38°C)

Applications: Unusually violent temperature fluctuations and ceiling temperatures exceeding 100°F (38°C) but not 150°F (66°C)

Maximum Spacing Allowance* -
50 x 50 ft. - UL
30 x 30 ft. - FM

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50 x 50 ft. - UL
30 x 30 ft. - FM

Maximum Spacing Allowance* -
25 x 25 ft. - UL
20 x 20 ft. - FM

Maximum Spacing Allowance* -
15 x 15 ft. - UL

*Refer to National Fire Alarm Code Standard NFPA 72 for application requirements



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NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets, which cover various technical limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Global Fire Control, Inc. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Global Fire Control, Inc. Global Fire Control, Inc. reserves the right to change specifications without notice.