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# TR-HEAT-W, TR-HEAT-IV, TR-HEAT-ROR-W, TR-HEAT-ROR-IV, TR-HEAT-HT-W and TR-HEAT-HT-IV

## Intelligent Thermal (Heat) Detector

Triga TR-HEAT-W Series intelligent thermal detectors are designed for both performance and aesthetics. A new modern, sleek, contemporary design and advanced thermal technologies make the TR-HEAT-W Series ideal for both system operation and building design.

The point ID address, set using rotary decimal switches, provide specific detector locations. The series includes a 135°F/57°C fixed temperature, rate-of-rise and a 190°F/88°C fixed high-temperature detectors. These thermal detectors provide effective, intelligent property protection in a variety of applications.

**TR-HEAT-W In TR-B300-6 base**

## FEATURES & BENEFITS

- Sleek and stylish contemporary design
- Advanced thermal technology for fast response
- Fixed temperature model (TR-HEAT-W & TR-HEAT-IV) factory preset to 135°F (57°C)
- Rate-of-rise model (TR-HEAT-ROR-W & TR-HEAT-ROR-IV), 15°F (8.3°C) per minute
- High temperature model (TR-HEAT-HT-W & TR-HEAT-HT-IV) factory preset to 190°F (88°C)
- Addressable by device
- Two-wire SLC connection
- Visible LEDs “blink” every time the unit is addressed
- Built-in tamper-resistant feature
- 360°-field viewing angle of the visual alarm indicators (two bi-color LEDs). LEDs blink green in Normal condition and turn on steady red in Alarm.
- Integral communications and built-in device-type identification
- Remote test feature from the panel
- Built-in functional test switch activated by external magnet
- Walk test with address display (an address of 121 will blink the detector LED 12-(pause)-1)
- Low standby current
- Designed for direct surface or electrical box mounting
- Sealed against back pressure
- Plugs into separate base for ease of installation and maintenance
- SEMS screws for wiring of the separate base
- Optional remote, single- gang LED accessory

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## APPLICATIONS

Use thermal detectors for protection of property. For further information, refer to manual which provides detailed information on detector spacing, placement, zoning, wiring, and special applications.

## INSTALLATION

The TR-HEAT-W Series plug-in detectors use a separate base to simplify installation, service, and maintenance. Installation instructions are shipped with each detector.
Mount base (all base types) on an electrical backbox which is at least 1.5" (3.81 cm) deep.

## NOTE:

• Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring “T-taps” or branches are permitted for Style 4 (Class “B”) wiring.
• When using relay or sounder bases, consult the installation sheet for device limitations between isolator modules and isolator bases.

## ORDERING INFORMATION

**TR-HEAT-W:** White, low-profile intelligent 135°F fixed thermal sensor.
**TR-HEAT-IV:** Ivory, low-profile intelligent 135°F fixed thermal sensor.
**TR-HEAT-ROR-W:** White, low-profile intelligent rateof- rise thermal sensor.
**TR-HEAT-ROR-IV:** Same as TR-HEAT-ROR-W, but in Ivory.
**TR-HEAT-HT-W:** White, low-profile intelligent 190°F fixed thermal sensor. Must be mounted to one of the bases listed below
**TR-HEAT-HT-IV:** Ivory, low-profile intelligent 190°F thermal sensor. Must be mounted to one of the bases listed below.

## INTELLIGENT BASES

**Note:** Detectors must be mounted to one of the Intelligent Bases listed below.
**TR-B300-6:** White, standard flanged low-profile mounting base.
**TR-B300-6-IV:** Ivory, standard flanged low-profile mounting base.
**TR-B501-WHITE:** White, standard European flangeless mounting base.
**TR-B501-BL:** Black, standard European flangeless mounting base.
**TR-B501-IV:** Ivory, standard European flangeless mounting base.
**TR-B200S-WH:** White, Intelligent, programmable sounder base.
**TR-B200S-IV:** Ivory, Intelligent, programmable sounder base.
**TR-B200SR-WH:** White, Intelligent sounder base for retrofit applications.
**TR-B200SR-IV:** Ivory, Intelligent sounder base for retrofit applications.
**TR-B200SR-LF-IV:** White, Low Frequency Intelligent, programmable sounder base.
**TR-B200S-LF-IV:** Ivory, Low Frequency Intelligent, programmable sounder base.
**B200SR-LF-WH:** White, Low Frequency Intelligent sounder base for retrofit applications.
**TR-B200SR-LF-IV:** Ivory, Low Frequency Intelligent sounder base for retrofit applications.
**TR-B224RB-WH**: White, plug-in relay base.
**TR-B224RB-IV:** Ivory, plug-in relay base.
**TR-B224RB-WH:** White, plug-in isolator detector base.
**TR-B224BI-IV:** Ivory, plug-in isolator detector base.

## ACCESSORIES

**TR-RA100Z:** Remote LED annunciator. 3-32 VDC. Mounts to a U.S. single-gang electrical box. For use with TR-B501 and TR-B300-6 bases only.

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# Technical Specifications

**PHYSICAL**

**Height:** 2.0" (51mm) installed in TR-B300-6 base

**Diameter:** 6.2" (156mm) installed in TR-B300-6 base 4.1" (104 mm) installed in TR-B501 base

**Weight:** 3.4 oz (95 g)

**RAL:** 9003

**ENVIRONMENTAL**

**Operating Temperature range:**

**Heat -Fixed temperature (TR-HEAT-W/TR-HEAT-IV):** -4°F to 100°F (-20°C to 38°C)

**Heat -Rate of Rise (TR-HEAT-ROR-W/TR-HEAT-ROR-IV):** -4°F to 100°F (-20°C to 38°C)

**Heat -High Temperature (TR-HEAT-HT-W/TR-HEAT-HT-IV):** -4°F to 150°F (-20°C to 66°C)

**Humidity:** 10% to 93% non-condensing

**Thermal Ratings:** Fixed Temperature Set point: 135°F (57°C)

**Rate-of-Rise Detection:** 15°F/min. (8.3°C/min)

**High Temperature Heat:** 190°F (88°C)

**IP Rating:** IP20

**ELECTRICAL RATINGS**

**Voltage Range:** 15 to 32VDC

**Standby Current (@ 24 VDC):** 200UA (one communication every 5 seconds with green LED enabled)

**Max Alarm Current:** 2mA @ 24VDC (one communication every 5 seconds with red LED enabled)

**Max Current:** 4.5mA @ 24VDC (one communication every 5 seconds with amber LED enabled)

**SPACING**

These sensors are designed to provide open area protection with 50-foot spac-ing capability as approved by UL 521.

**COMPATIBILITY**

The TR-HEAT-W series detectors are compatible with the following Triga Series FACPs:

- TR-2100R / TR-2100B
- TR-2100ECSR / TR-2100ECSB
- TR-R2100R / TR-R2100B

**AGENCY LISTINGS AND APPROVALS**

For exact certification listings for each model, please reference the respective agency Web site.

**UL** listed

**FM** approved

This document is not intended to be used for installation purposes. We try to keep our product information up-to date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

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