

# Velociti® Series ATD-L2F, ATD-RL2F

## Addressable Thermal Sensor

### GENERAL

The Gamewell-FCI, Velociti® Series addressable plug-in thermal sensors with integral communication provide features that surpass conventional sensors. Point ID capability allows each sensor's address to be set, providing exact locations for pinpointing alarm locations and used for selective maintenance. ATD thermal sensors use an innovative thermistor sensing circuit to produce 135°F/57°C fixed-temperature (ATD-L2F). The ATD-RL2F provides a combination 15°/minute rate-of-rise with 135° fixed thermal detection that is included in a low-profile package. The ATD-HL2F provides fixed high-temperature detection at 190°F/88°C. These thermal sensors provide cost-effective, addressable property protection in a variety of applications.

The Velociti® Series uses a communication protocol that substantially increases the speed of communication between the sensors and Gamewell-FCI analog addressable fire alarm controls. These devices operate in a grouped fashion. If one of the devices in the group has a status change, the panel's microprocessor stops the group poll and identifies the single device with the status change. The net effect is response speed up to five times greater than earlier designs.

### Installation

The ATD plug-in sensors use a separate base to simplify installation, service, and maintenance. A special tool allows maintenance personnel to plug-in and remove sensors without using a ladder.

Mount the base on a box which is at least 1.5" (3.8 cm) deep. Suitable mounting base boxes include:

- 4.0" (10.2 cm) square box
- 3.5" (8.9 cm) or 4.0" (10.2 cm) octagonal box
- Single-gang box (except relay or isolator base)

With B200S or B200SR base, mounted on a 4.0" (10.2 cm) octagonal or square box.

With B224RB or B224BI base, mounted on a 3.5" (8.9 cm) octagonal box, or a 4.0" (10.2 cm) octagonal or square box.

NOTE: Due to the inherent supervision provided by the SLC, the end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class "B") wiring.

### Ordering Information

**ATD-L2F:** Addressable thermal sensor, fixed, 135° F

**ATD-RL2F:** Addressable thermal sensor, combination fixed, 135° F and 15°/minute rate-of-rise

**ATD-HL2F:** Addressable thermal sensor, fixed, 190° F

## FEATURES & BENEFITS

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|---|--|--|---|
| <ul style="list-style-type: none"> <li>• Sleek, low-profile design</li> <li>• Visual rotary switch addressing</li> <li>• Built-in functional test switch activated by an external magnet</li> </ul> | <ul style="list-style-type: none"> <li>• Bi-color LEDs flash green whenever the sensor is addressed, and light steadily red on alarm*</li> <li>• Optional relay, isolator, or sounder bases</li> </ul> | <ul style="list-style-type: none"> <li>• Low standby current</li> <li>• Addressable communication</li> <li>• Stable communication technique with noise immunity</li> </ul> | <ul style="list-style-type: none"> <li>• Optional remote, single-gang LED accessory (RA-100Z)</li> <li>• Suitable for installation in ducts</li> </ul> <p>Note: *Only the red LED is operative in panels that do not operate in Velociti® mode.</p> |
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ATD-L2F

# Velocitit® Series ATD-L2F, ATD-RL2F Technical Specifications

## SYSTEMS

### ATD-L2F/ATD-RL2F:

**Dimensions:** 2.1" (5.3 cm) Height

4.1" (10.4 cm) diameter installed in the B501 base

6.1" (15.5 cm) diameter installed in the B210LP base

**Shipping Weight:** 4.8 oz. (137 g)

### Operating Temperature:

**ATD-L2F or ATD-RL2F:** -4° F to 100° F  
(-20° C to 38° C)

**ATD-HL2:** -4° F to 150° F (-20° C to 66° C)

### Sensor Spacing:

UL® approved for 50 ft. (15.2 m) center to center

FM approved for 25 x 25 ft. (7.6 x 7.6 m) spacing

**Relative Humidity:** 10 – 93% (non-condensing)

**ATD-L2F:** Fixed-temperature setpoint 135° F (57° C)

**ATD-RL2F:** Combination 135° F fixed temperature and 15° F (8.3° C)/per minute rate-of-rise°

**ATD-HL2F:** Fixed-temperature setpoint 190° F (88° C)

## Electrical Specifications

**Voltage Range:** 15 - 32 Volts DC peak

### Standby Current:

200 mA @ 24 VDC (without communication) (max. avg.)

.0003 A @ 24 VDC (one communication every 5 seconds with LED blink enabled)

LED Current (max.) .0065 A @ 24 VDC (LED lit)

## Bases and Options

**B501:** Plug-in sensor base without flange

**Dimensions:** 4.1" (10.4 cm) diameter

**B210LP:** Flanged mounting base

**Dimensions:** 6.1" (15.5 cm) diameter

**B210LPBP:** Flanged mounting base bulk pack

**Dimensions:** 6.1" (15.5 cm) diameter

**B224RB:** Plug-in sensor base with auxiliary relay

**SPDT 2 coil latching relay 1 Form C contact UL/CSA**

**Rating:** 0.9 A @ 125 VAC (inductive)

0.9 @ 110 VDC (inductive)

3.A @ 30 VDC (resistive)

**Dimensions:** 6.1" (15.5 cm) diameter

**B224BI:** Plug-in sensor isolator base for Style 7 operation

**Dimensions:** 6.1" (15.5 cm) diameter

Maximum 25 devices between isolator bases

**B200S:** Intelligent sensor sounder base

**Dimensions:** 6.875" (17.5 cm) diameter

**B200SR:** Standard sounder base, UL 864 9th Edition compliant, ULC Listed

**Dimensions:** 6.875" (17.5 cm) diameter

**RA-100Z:** Remote LED Annunciator

**BCK-200:** Black detector covers (box of 10)

## TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F).

However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

## STANDARDS

The ATD-L2F/ATD-RL2F are designed to comply with the following standards:

**UL Standard:** UL 864 9th Edition

## AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

**UL:** S2332

**FM:** 3023594

**MEA FDNY:** 219-02-E Vol. VI

**CSFM:** 7270-1703:0115

**ISO 9001 Certification**

For a complete listing of all compliance approvals and certifications, please visit: <http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx>

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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.

## For more information

Learn more about Gamewell-FCI's Velocitit® Series ATD-L2F, ATD-RL2F and other products available by visiting [www.Gamewell-FCI.com](http://www.Gamewell-FCI.com)

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