Veloticit® 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.

ATD-L2F

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

- Sleek, low-profile design
- Visual rotary switch addressing
- Built-in functional test switch activated by an external magnet

- Bi-color LEDs flash green whenever the sensor is addressed, and light steadily red on alarm*
- Optional relay, isolator, or sounder bases

- Low standby current
- Addressable communication
- Stable communication technique with noise immunity

- Optional remote, single-gang LED accessory (RA-100Z)
- Suitable for installation in ducts

Note: *Only the red LED is operative in panels that do not operate in Velociti® mode.

Veloticit® 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 – 49ºC/32 – 120ºF and at a relative humidity 93% ± 2% RH (noncondensing) at 32ºC ± 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 – 80ºF.

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 more information

Learn more about Gamewell-FCI's Veloticit® Series ATD-L2F, ATD-RL2F and other products available by visiting www.Gamewell-FCI.com

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