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Velociti[®] Series ADPF and ADPRF

Description

The Gamewell-FCI Velociti[®] Series, low-flow photoelectronic air duct smoke sensors are capable of sensing smoke in air velocities from 100 to 4,000 feet per minute (0.5 to 20.32 m/sec.).

ADPF sensors feature low-flow technology that enables duct smoke detection throughout a broad range of airflow environments. Many difficult to solve HVAC applications occur in low airflow duct applications where reliable smoke detection is critical. ADPF low-flow technology can detect smoke at air speed velocities of 100 feet per minute or greater, while continuing the same reliable performance to 4,000 feet per minute.

The ADPF sensor samples air currents passing through a duct and gives dependable performance for shutdown of fans, blowers, and air conditioning systems, preventing the spread of toxic smoke and fire gases through the protected area.

The Velociti[®] Series use a communication protocol that substantially increases the speed of communication between the sensors and certain 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 concentrates on the single device. The net effect is a response speed up to five times greater than earlier designs.

These intelligent sensors communicate and are continuously monitored through the signaling line circuit. Sensor sensitivity changes caused by dirt, temperature, or humidity are reported to the panel, allowing compensation algorithms to maintain the sensor's set sensitivity. An advance indication at the panel specifies the sensor address, allowing for selected maintenance to be performed as needed.

Velociti[®] and E3 Series[®] are registered trademarks of Honeywell International Inc.

Analog Addressable Low-Flow Duct Sensor



ADPRF

Features

- Air velocity rating from 100 to 4,000 feet per minute (0.5 to 20.32 m/sec.)
- Patented telescopic sampling tube
- Easily accessible code switches
- Outside mounting tabs
- Easy and quick mounting to round or rectangular ducts from 1'-12' (0.3-3.7 meters) wide
- · Easy to clean
- UL recognized field-replaceable power and sensor boards
- Transparent cover for convenient visual inspection.
 Bi-color LEDs flash green whenever the sensor is addressed, and light steady red on alarm

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

An ISO 9000-2000 Company





GAMEWELL-FCI 12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118 Specifications are for information only, are not intended for installation purposes, and are subject to change without notice. No responsibility is assumed by Gamewell-FCI for their use. Www.gamewell-fci.com 9020-0622 Rev. C page 1 of 2

Description (continued)

Remote alarm annunciation can be accomplished by using the RA400Z remote annunciator or the RTS451or RTS451KEY remote test station. Both these devices allow testing of the sensor from a remote location.

ADPF low-flow duct sensors are designed for simplified installation and easy maintenance. The modular construction allows for easy cleaning and uncomplicated field replacement of the UL recognized power and sensor boards.

The ADPF (non-relay) has outputs for a remote LED display and remote test switch. It incorporates zener diodes to conserve power for communications to other devices. The ADPF is a 2-wire device that requires signaling line circuit power only.

The ADPRF (with relay) has powered outputs for remote LED indication with a remote test switch and audible sounder. Two form "C" auxiliary contacts can be configured as a relay version or jumpered to mimic the non-relay version. It has a patented cover tamper trouble signal. The ADPRF is a 4-wire device that requires both signaling line circuit power and either 24VAC/DC or 120/240VAC for proper operation.

Specifications

Operating Temperature Operating Humidity Range: Storage Temperature Range: Duct Air Velocity:	32° to 131° F (0° to 55° C) 10 to 93% relative humidity (non–condensing) -22° to 158° F (-30° to +70° C) 100-4000 ft./min. (0.5–20.32 m/s)
Shipping Weight:	ADPF: 3.35 lbs. (1.5 kg) ADPFRF:3.90 lbs. (1.8 kg)
Dimensions Length: Width: Depth:	14 3/4" (37 cm) 5 1/2" (14 cm) 2 3/4" (7 cm)
Model ADPF (Non-relay) Voltage Range: Standby Current:	15 to 32 VDC 300 μA @ 24 VDC (one communication every 5 seconds with LED flash enabled)

Model ADPFRF (with Relay)

Current Requirements (using no accessories) Power Supply Voltage: 20-30 VDC 30 VAC, 120 VAC, 22/240 VAC, 50-60 Hz 50-60 Hz 50-60 Hz Max. Standby Current: 26 mA 65 mA RMS 44 mA RMS 25 mA RMS Max. Alarm Current: 87 mA 182 mA RMS 52 mA RMS 30 mA RMS Alarm Response Time: 3 to 10 sec. 3 to 10 sec. 3 to 10 sec. 3 to 10 sec. Auxiliary Relay Contact Ratings Alarm auxiliary contacts* (DPDT): 10 A @ 30 VDC 10 A @ 277 VAC (0.75 power factor) 240 VA @ 249 VAC (0.4 power factor) 1/8 HP @ 120 VAC 1/4 HP @ 240 VAC Supervisory contact (SPST): 2.0 A @ 30 VDC (resistive) Minimum switching current for auxiliary contact must be 100 mA DC minimum @ 5 VDC. Accessory Current Loads at 24 VDC Standby Dovico Alarm

Device	Otanuby	Alaini
PA400	0 mA	15 mA Max.
RA400Z	0 mA	12 mA Max.
RTS451/	0 mA	10 mA Max.
RTS451KEY		

Ordering Information

Part Number Description

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ADPF	Analog addressable low-flow photoelec-		
	tronic non-relay duct smoke sensor		
ADPRF	Analog addressable low-flow photoelec-		
	tronic with relay duct smoke sensor		
ST-1.5	Sampling tube duct widths 1'-2'		
ST-3	Sampling tube duct widths 2'-4'		
ST-5	Sampling tube duct widths 4'-8'		
ST-10	Sampling tube duct widths 8'-12'		
A5060	Replacement power board for ADPF-RF		
	(w/relay)		
A5067	Replacement power board for ADPF		
	(w/o relay)		
Accessories	Description		
RTS451	Remote test station		
RTS451KEY	Remote test station w/key		
RA400Z	Remote LED		
F36-09-11	Replacement filters		
M02-04-00	Test magnet		
P48-21-00	End cap of metal sampling tube		
P48-61-00	End cap for plastic sampling tube		
S08-39-01	Replacement photo insect screen		



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