



Fire Sprinkler Monitoring Products

Solutions and Service
for Sprinkler System Integrity



 **SYSTEM
SENSOR**
advanced ideas. advanced solutions.™

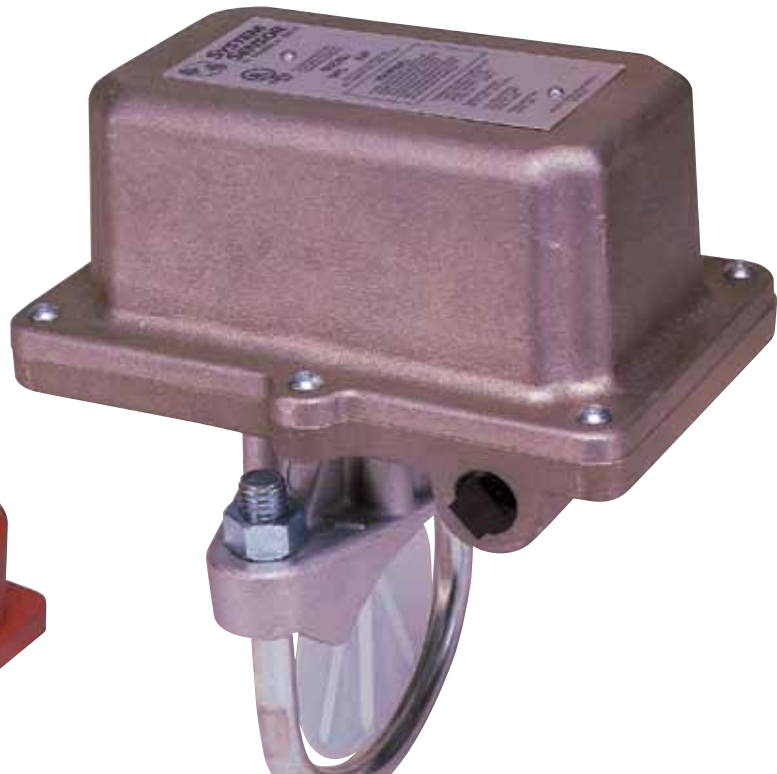
waterflow monitoring

Monitoring Fire Sprinkler System Flow

During a fire condition, sprinkler system reliability is critical, whether it's the operation of a sprinkler or the monitoring of the sprinkler system itself. System Sensor's line of waterflow detectors provides that reliability when monitoring water flow within a wet pipe fire sprinkler system. These vane-type paddle designs are available in a variety of configurations and accommodate 2" through 8" pipe for commercial riser applications, as well as 1" NPT connections for residential or branch line signaling.

The WFD series detectors provide a mechanical time delay that is adjusted via an adjustment wheel. This retard mechanism is field replaceable, as is the terminal block.

System Sensor also offers several specialty waterflow detectors for unique applications. The WFD-EXP line of explosion-proof waterflow detectors is intended for use in hazardous locations where volatile vapors or particulates may be present.



pressure monitoring



Monitoring the Fire Sprinkler System's Status

System Sensor's line of pressure switches includes the EPS10 series for use in wet, dry, deluge and pre-action automatic sprinkler systems to indicate a discharge from a sprinkler. The EPS40 and EPS120

series supervisory pressure switches are intended for dry pipe systems or pressure tanks and water supplies of automatic water control valves. These models offer a choice of initiating low or high/low pressure

alarms, in a variety of pressure ranges. And should your system involve a potentially hazardous location, System Sensor offers a complete line of explosion-proof alarm and supervisory pressure switches.

valve monitoring

Tamper Monitoring and Prevention

The nerve centers of a fire sprinkler system are the switches and valves that control the entire system. System Sensor offers a variety of choices for supervising system control valves. Regardless of valve type (outside screw

and yoke, post indicator, butterfly, or non-rising stem gate valve), our OSY2, PIBV2, and PSP1 models provide you with the peace of mind that comes from knowing that your system's control valves are being monitored.



Information to Help You Act

Completing the System Sensor line of sprinkler monitoring products are the PDRP-2001 control panel and SSV/SSM series alarm bells. Our reliable system provides a way to detect and respond to changes on all initiating and release circuits, reducing the risk of loss from fire. Combined with our alarm bells, these devices make signaling any change in your fire sprinkler system is easy.

System Sensor's control panels and alarms provide the information you need to take action when needed. The PDRP-2001 includes up to 6 Class A/B initiating zones, up to 4 Class A/B NAC, 100% programmable relays, 80 character LCD display, and a 256 event history. The PDRP-2001 complies with NFPA 72, NFPA 13, NFPA 15, and NFPA 16 standards.



system alarms

For notification in outdoor applications, System Sensor offers the P2RHK-120. This SpectrAlert Advance wall-mount horn strobe is outdoor listed and operates on 120VAC. The horn strobe is watertight when used in conjunction with the included weatherproof back box.



System Sensor alarm bells deliver high sound pressure output for fire signaling needs. Models are available

for 120VAC and 24VDC operating voltage and are offered in 6", 8" and 10" sizes.



Specifications

WFD Series Waterflow Detectors*

Model No.	Pipe Size	Pipe Schedule	UL Pressure Rating	Enclosure Rating	Agency Approvals**
WFD20	2"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, CNTC
WFD25	2.5"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, CNTC
WFD30-2	3"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM
WFD35	3.5"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, CNTC
WFD40	4"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, CNTC
WFD50	5"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, CNTC
WFD60	6"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, CNTC
WFD80	8"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, CNTC
WFDT	1" NPT Connection	(Refer to Data Sheets)	250 PSI	NEMA 4	UL, CSFM, CNTC
WFDTH	1" NPT Connection	(Refer to Data Sheets)	250 PSI	NEMA 3	UL, CSFM
WFDTNR	1" NPT Connection	(Refer to Data Sheets)	250 PSI	NEMA 4	UL, CSFM

Explosion-proof Waterflow Detectors

Model No.	Pipe Size	Pipe Schedule	UL Pressure Rating	Enclosure Rating	Agency Approvals**
WFD20EXP	2"	10 through 40	450 PSI	NEMA 4	UL, ULC, FM, CSFM
WFD25EXP	2.5"	10 through 40	450 PSI	NEMA 4	UL, ULC, FM, CSFM
WFD30-2EXP	3"	10 through 40	450 PSI	NEMA 4	UL, ULC, FM
WFD35EXP	3.5"	10 through 40	450 PSI	NEMA 4	UL, ULC, FM, CSFM
WFD40EXP	4"	10 through 40	450 PSI	NEMA 4	UL, ULC, FM, CSFM
WFD50EXP	5"	10 through 40	450 PSI	NEMA 4	UL, ULC, FM, CSFM
WFD60EXP	6"	10 through 40	450 PSI	NEMA 4	UL, ULC, FM, CSFM
WFD80EXP	8"	10 through 40	450 PSI	NEMA 4	UL, ULC, FM, CSFM

These units intended for use in hazardous locations classified as follows: Class I, Groups B, C, D, Division 1 & 2; Class II, Groups E, F, G, Division 1 & 2; Class III, Division 1 & 2.

EPS Series Pressure Switches*

Model No.	Adjustment Pressure Range	Factory Setting	Enclosure Rating	Agency Approvals**
EPS10-1	4 – 20 PSI	Operates at rising pressure 4 – 8 PSI	UL 4X, NEMA 4	UL, FM, CSFM
EPS10-2	4 – 20 PSI	Operates at rising pressure 4 – 8 PSI	UL 4X, NEMA 4	UL, FM, CSFM
EPS40-1	10 – 100 PSI	Operates at decreasing pressure at 30 PSI	UL 4X, NEMA 4	UL, FM, CSFM
EPS40-2	10 – 100 PSI	Operates at increasing pressure at 50 PSI and decreasing pressure at 30 PSI	UL 4X, NEMA 4	UL, FM, CSFM
EPS120-1	10 – 200 PSI	Operates at decreasing pressure at 105 PSI	UL 4X, NEMA 4	UL, FM, CSFM
EPS120-2	10 – 200 PSI	Operates at increasing pressure at 125 PSI and decreasing pressure at 105 PSI	UL 4X, NEMA 4	UL, FM, CSFM

Explosion-proof Pressure Switches

Model No.	Adjustment Pressure Range	Factory Setting	Enclosure Rating	Agency Approvals**
EPS10EXP	4 – 20 PSI	Operates at rising pressure 4 – 8 PSI	NEMA 4	UL, ULC, FM, CSFM
EPS40EXP	10 – 100 PSI	Operates at increasing pressure at 50 PSI and decreasing pressure at 30 PSI	NEMA 4	UL, ULC, FM, CSFM
EPS120EXP	10 – 200 PSI	Operates at increasing pressure at 125 PSI and decreasing pressure at 105 PSI	NEMA 4	UL, ULC, FM, CSFM

These units intended for use in hazardous locations classified as follows: Class I, Groups B, C, D, Division 1 & 2; Class II, Groups E, F, G, Division 1 & 2; Class III, Division 1 & 2.

Control Valve Supervisory Switches*

Model No.	Valve Types	Enclosure Rating	Agency Approvals**
OSY2	Outside screw and yoke valves	NEMA 3R	UL, ULC, FM, CSFM
PIBV2	Post indicator valves, butterfly valves with rising or falling flags	NEMA 3R	UL, ULC, FM, CSFM
PSP1	Non-rising stem gate valves, ball and angle valves	NEMA 3	UL, ULC, FM, CSFM

Explosion-proof Control Valve Supervisory Switches

Model No.	Valve Types	Enclosure Rating
OSYEXP	Outside screw and yoke valves	NEMA 1, 7, and 9
PIBEXP	Post indicator valves, butterfly valves	NEMA 1, 7, and 9

These units intended for use in hazardous locations classified as follows: Class I, Groups C, D, Division 1 & 2; Class II, Groups E, F, G, Division 1 & 2; Class III, Division 1 & 2.

Alarm Bells*

Model No.	Size	Operating Voltage Range	Current Draw	Sound Output	Agency Approvals**
SSV120-6	6"	96 – 132 VAC	53mA	85 dB	UL, FM, CSFM
SSV120-8	8"	96 – 132 VAC	53mA	82 dB	UL, FM, CSFM
SSV120-10	10"	96 – 132 VAC	53mA	82 dB	UL, FM, CSFM
SSM24-6	6"	16 – 33 VDC	DC 31.1mA/FWR 53.5mA	82 dB	UL, FM, CSFM
SSM24-8	8"	16 – 33 VDC	DC 31.1mA/FWR 53.5mA	80 dB	UL, FM, CSFM
SSM24-10	10"	16 – 33 VDC	DC 31.1mA/FWR 53.5mA	81 dB	UL, FM, CSFM

Outdoor Horn/Strobe*

Model No.	Voltage	Candela	Agency Approvals**
P2RHK-120	120 VAC	135, 150, 177, 185	UL, FM, CSFM

PDRP Series Fire Alarm Control Panels*

Model No.	Description	Agency Approvals**
PDRP-2001	Deluge releasing fire alarm control panel	UL, FM, CSFM

Sprinkler Monitoring Device Accessories

Model No.	Description
WFDW	Cover wrench for WFD, EPS, OSY2, PIBV2, and PSP1 series products
S07-66-05	Cover tamper screws for WFD, EPS, OSY2, PIBV2, and PSP1 series products
C58-164-01	Replacement cover for WFD series waterflow detectors
546-7000	Cover tamper switch kit for WFD, OSY2, and PIBV2 series products
546-8000	Cover tamper switch kit for EPS series pressure switches
WFDN4	NEMA 4 gasket replacement kit for WFD, AFD, and LFD series waterflow detectors
PRK9	Paddle kit for WFDT series waterflow detectors
A3008-00	Replacement retard kit for WFD series waterflow detectors
A77-01-02	Replacement terminal block kit for WFD series waterflow detectors
HEXW	Replacement hex wrench for OSY2 and PIBV2 supervisory switches
WBB	Weatherproof back box

How can you be sure that *YOUR* system will operate when needed?

The National Fire Protection Association (NFPA) records indicate Sprinklers save lives and protect property from fires. Compared to properties without automatic extinguishing equipment, death rate per fire in sprinklered homes is 83 percent lower. Direct property damage per fire in sprinklered homes is 73 percent lower. The question then becomes: How can you be sure that your system will operate when needed?

System Sensor Sprinkler Monitoring Devices

System Sensor products supervise sprinkler systems by monitoring valve positions, system pressure and to ensure system reliability and effectiveness. When it comes to installing the very best, always specify System Sensor fire sprinkler monitoring devices. Our engineered products help keep people and property safe.

The Power Behind the Products

System Sensor was founded in 1984 and today is the largest manufacturer of fire detection and notification appliances in the world. More than 1,900 System Sensor associates collaborate worldwide to build quality products for conventional detection, intelligent detection, audible/visible notification, HVAC monitoring, and sprinkler systems monitoring. We attribute the demand for our products to our high production standards and strong communication with our customers. Every day we develop advanced ideas that deliver advanced solutions to our customers.

For more information, please call 800-SENSOR2 for a free E•DOCS CD-ROM, a comprehensive resource of technical information, or visit systemsensor.com.



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