



Fire Sprinkler Monitoring Products

Solutions and Service
for Sprinkler System Integrity



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

waterflow monitoring

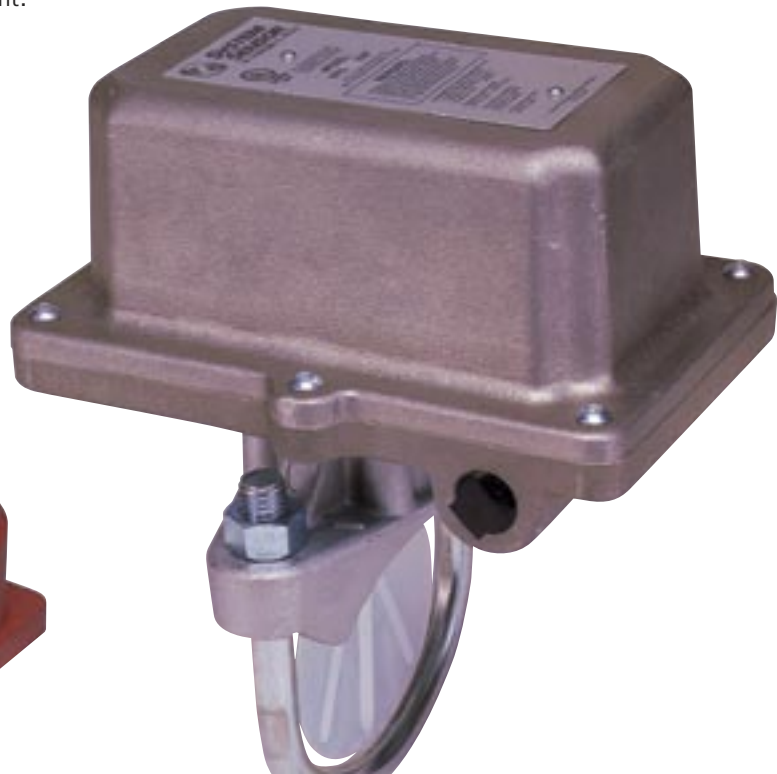
Monitoring Fire Sprinkler System Flow

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 delay that is adjusted via

an adjustment wheel. This retard mechanism is field replaceable, as is our terminal block. Both are unique features offered only by System Sensor.

We also offer several specialty waterflow detectors, for truly uncommon applications. The WFD-EXP line of explosion-proof waterflow detectors is intended for 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, we offer a complete line of explosion-proof

alarm and supervisory pressure switches. In every case, you are assured of technically superior choices with System Sensor products.

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, which comes from knowing that your system's control valves are being monitored.





Completing the System Sensor line of sprinkler monitoring products are the PDRP-1001 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, signaling any change in your fire sprinkler system is easy.

Information to Help You Act

System Sensor's control panels and alarms provide the information you need to take action — when you need to. The PDRP-1001 includes fault supervision and fuse protection on all initiating and release circuits, with up to 90 hours of standby. Depending upon the model, the PDRP-1001 offers compliance with NFPA 71, NFPA 72, NFPA 12, NFPA 12A, and NFPA 12B standards.

system alarms

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



System Sensor's 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. In all situations, these are the products you can rely on because they carry the System Sensor name.



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, MEA, CNTC
WFD25	2.5"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, MEA, CNTC
WFD30-2	3"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, MEA
WFD35	3.5"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, MEA, CNTC
WFD40	4"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, MEA, CNTC
WFD50	5"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, MEA, CNTC
WFD60	6"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, MEA, CNTC
WFD80	8"	10 through 40	450 PSI	NEMA 4	UL, FM, CSFM, MEA, CNTC
WFDT	1" NPT Connection	(Refer to Data Sheets)	250 PSI	NEMA 4	UL, CSFM, MEA, CNTC
WFDTH	1" NPT Connection	(Refer to Data Sheets)	250 PSI	NEMA 3	UL, CSFM, MEA
WFDTNR	1" NPT Connection	(Refer to Data Sheets)	250 PSI	NEMA 4	UL, CSFM, MEA

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, MEA
WFD25EXP	2.5"	10 through 40	450 PSI	NEMA 4	UL, ULC, FM, CSFM, MEA
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, MEA
WFD40EXP	4"	10 through 40	450 PSI	NEMA 4	UL, ULC, FM, CSFM, MEA
WFD50EXP	5"	10 through 40	450 PSI	NEMA 4	UL, ULC, FM, CSFM, MEA
WFD60EXP	6"	10 through 40	450 PSI	NEMA 4	UL, ULC, FM, CSFM, MEA
WFD80EXP	8"	10 through 40	450 PSI	NEMA 4	UL, ULC, FM, CSFM, MEA

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, MEA
EPS10-2	4 – 20 PSI	Operates at rising pressure 4 – 8 PSI	UL 4X, NEMA 4	UL, FM, CSFM, MEA
EPS40-1	10 – 100 PSI	Operates at decreasing pressure at 30 PSI	UL 4X, NEMA 4	UL, FM, CSFM, MEA
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, MEA
EPS120-1	10 – 200 PSI	Operates at decreasing pressure at 105 PSI	UL 4X, NEMA 4	UL, FM, CSFM, MEA
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, MEA

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, MEA
EPS40EXP	10 – 100 PSI	Operates at increasing pressure at 50 PSI and decreasing pressure at 30 PSI	NEMA 4	UL, ULC, FM, CSFM, MEA
EPS120EXP	10 – 200 PSI	Operates at increasing pressure at 125 PSI and decreasing pressure at 105 PSI	NEMA 4	UL, ULC, FM, CSFM, MEA

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, MEA
PIBV2	Post indicator valves, butterfly valves with rising or falling flags	NEMA 3R	UL, ULC, FM, CSFM, MEA
PSP1	Non-rising stem gate valves, ball and angle valves	NEMA 3	UL, ULC, FM, CSFM, MEA

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, MEA
SSV120-8	8"	96 – 132 VAC	53mA	82 dB	UL, FM, CSFM, MEA
SSV120-10	10"	96 – 132 VAC	53mA	82 dB	UL, FM, CSFM, MEA
SSM24-6	6"	16 – 33 VDC	DC 31.1mA/FWR 53.5mA	82 dB	UL, FM, CSFM, MEA
SSM24-8	8"	16 – 33 VDC	DC 31.1mA/FWR 53.5mA	80 dB	UL, FM, CSFM, MEA
SSM24-10	10"	16 – 33 VDC	DC 31.1mA/FWR 53.5mA	81 dB	UL, FM, CSFM, MEA

Outdoor Horn/Strobe*

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

PDRP Series Fire Alarm Control Panels*

Model No.	Description	Agency Approvals**
PDRP-1001	Two-zone pre-action/deluge fire alarm control panel	UL, FM, CSFM, MEA

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 that 96 percent of all fires occurring in sprinklered buildings were extinguished or held in check by the system, and 80 percent of those fires were controlled by the activation of fewer than eight sprinkler heads. 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 water flow. They in turn assure system reliability and effectiveness. When it comes to installing the very best, always specify System Sensor fire sprinkler monitoring devices. Trust your fire sprinkler monitoring to System Sensor. Our engineered products help keep people and property safe.

System Sensor is a global manufacturer of fire detection and notification devices, specializing in smoke detection and notification technology. System Sensor places a premium on research and development, resulting in products that are reliable, sophisticated, and designed for real-world applications. With sales, service, and manufacturing facilities throughout the Americas, Europe, and Asia, System Sensor's high quality, innovative products are the most comprehensive in the industry.



advanced ideas. advanced solutions.™

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