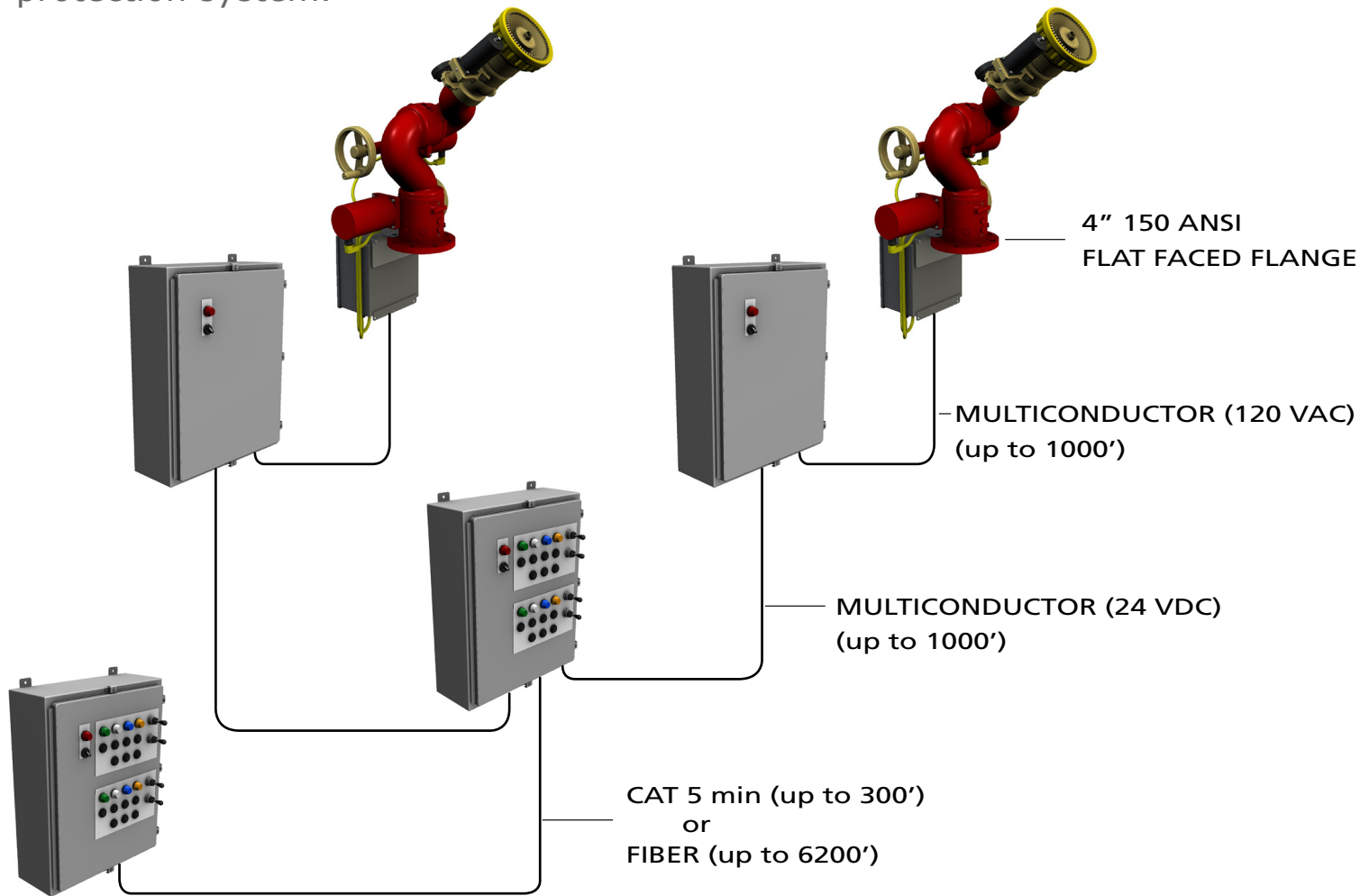


## Electric Monitor Interconnect

Complete electric, remote controlled monitor fire protection system.



This complete fire protection interconnection system is an all-in-one solution for easy plug-and-play operation.

### Features:

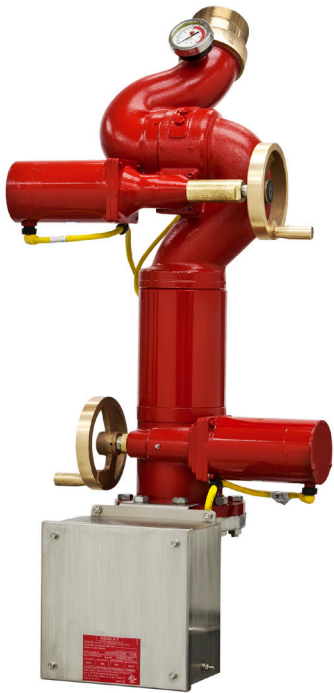

- Components meet NFPA/NEC requirements for Class I Division 2 service
- Configurable network communication between control panels
- Hard wire connections from "Local" panel to MMCP
- Control panels are configurable for either Local or Master (Remote) installation
- Auxiliary inputs provided for emergency response controls to be added later
- Addition of more monitors and control panels possible for system expansion

### Components:

- (2) 08394053 Spit-Fire® Monitors
- (2) X-Stream Master Stream Nozzles (1000, 1250, 2000 GPM)
- (2) 81471058 Monitor Motor Control Panels (MMCP)
- (2) 24359000 Operator Control Panels (OCP)
- Manuals for each
- Setup manual for system



Overview

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Spit-Fire® Monitor</p>	 <p>A red, vertical fire monitor with a brass nozzle assembly, a hand wheel, and a motor base.</p>	<p>Features:</p> <ul style="list-style-type: none"> <li>• Construction – All brass with vaned 4" waterway</li> <li>• Mounting Flange – 4" 150 lbs. Flat-face ANSI flange (raised face flange available as option)</li> <li>• Discharge – 3.5" N.H. Threaded male outlet</li> <li>• Stream Shaper – Cat. #284-B Brass Shaper included</li> <li>• Flow – 2000 GPM max flow @ 200 psi. max working pressure</li> <li>• Motors – 120 VAC NEMA 4 rated synchronous motors (non-arcing)             <ul style="list-style-type: none"> <li>o Constant torque and current output in start, running, and stall</li> <li>o UL Recognized for Class 1, Division 2 use</li> <li>o Will not cause damage or increase in current when motor is stalled</li> <li>o Instantaneous start, stop, and reverse</li> <li>o Residual (Power Off) torque is always present</li> <li>o Long life and exceptional reliability</li> <li>o 120 VAC, 50/60 Hz., 1 Phase, 0.80 Amp current per motor</li> </ul> </li> <li>• Junction Box – NEMA 4X (IP-66) Water tight, corrosion resistant &amp; UL Listed enclosure with terminals, for hazardous locations. Stainless Steel Motor Cable Junction Box with bracket to attach to monitor flange base included</li> <li>• Range of Motion – Monitor stops are factory set at 346° (+173° to -173° from front center) horizontal and 135° (+90° to -45°) vertical movement</li> <li>• Rate of Horizontal Motion – 0.139 Sec/°</li> <li>• Manual Override – Hand wheels provided for vertical and horizontal movements. Hand wheel(s) will not rotate when monitor is operated electrically.</li> <li>• Meets NEC (NFPA 70) Article 501 requirements for use in Class 1, Groups "A, B, C, &amp; D," Division-2 &amp; Article 505 – Class I, Zone 2, A Ex nA IIC T4 hazardous location areas.</li> </ul>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Electric X-Stream Master Stream Nozzle</p>	 <p>A brass and stainless steel nozzle assembly with a yellow hand wheel and a motor base.</p>	<p>Features:</p> <ul style="list-style-type: none"> <li>• Intake - 3.5" N.H. Threaded swivel female inlet</li> <li>• Construction - All brass and stainless steel</li> <li>• Stream Adjustment - Electric with manual override adjusts from straight stream to wide fog (Knob does not move when actuated electrically)</li> <li>• Flow - SM-1000 = Flow: 300GPM @ 60psi - 1000GPM @ 82psi              - SM-1250 = Flow: 388GPM @ 50psi - 1250GPM @ 75psi              - SM-2000 = Flow: 300GPM @ 38psi - 2000GPM @ 82psi</li> <li>• Motors – 120 VAC NEMA 4 rated synchronous motors (non-arcing)             <ul style="list-style-type: none"> <li>o Constant torque and current output in start, running, and stall</li> <li>o UL Recognized for Class 1, Division 2 use</li> <li>o Will not cause damage or increase in current when motor is stalled</li> <li>o Instantaneous start, stop, and reverse</li> <li>o Residual (Power Off) torque is always present</li> <li>o Long life and exceptional reliability</li> <li>o 120 VAC, 50/60 Hz., 1 Phase, 0.30 Amp current</li> </ul> </li> <li>• Range of Motion – Nozzle stops are factory set at 100° (0° to 100°)</li> <li>• Rate of Motion – 0.0428 Sec/°</li> <li>• Manual Override – Hand wheels provided for straight stream and fog stream movements. Hand wheel will not rotate when nozzle is operated electrically.</li> <li>• Meets NEC (NFPA 70) Article 501 requirements for use in Class 1, Groups "A, B, C, &amp; D," Division-2 &amp; Article 505 – Class I, Zone 2, A Ex nA IIC T4 hazardous location areas.</li> </ul>

**Overview Continued**



This panel is the relay interface from the Operator Control Panel (OCP) to the monitor. This panel has only a Power On/Off switch and a Power On indicator light and can also control the water and foam valve operation if so desired.

**Features:**

- Construction – NEMA 4X Stainless Steel enclosure
- Compliance – (NFPA 70) NEC: 2008, Article 501 – Class I, Groups “B, C, & D,” Division 2 & Article 505 – Class I, Zone 2, AEx nA IIC T3 requirements; UL Labeled
- Power Capabilities - 120/240 (50/60 Hz) 1-phase and 440/480 3-phase depending on jumper configuration
- 500VA MAX power (includes monitor)
- Control Power – On/Off 2-Position selector switch
- Pilot Light – Shows panel power on
- Internal Power – 24 VDC Power Supply for controls
- Control Relays – 24 VDC, 37mA relay inputs for: Monitor directions (UP, DOWN, LEFT, & RIGHT), Nozzle (STRAIGHT STREAM & FOG), Water & Foam Valves (OPEN & CLOSE).
- Water and Foam valve operating voltage - 24 VDC
- Conduit Knockouts and Hubs – Supplied by customer.



This is a universal panel depending on how it is configured or used. It can be set-up in multiple configurations to achieve the desired system. Panel set-up/programming procedure is in the OCP manual. The OCP has a selector switch for Power On/Off, and will also have push buttons for Park, Oscillate On/Off, Water Valve Open/Close, and Foam Valve Open/Close. It includes a two position joystick to do Nozzle Fog to Straight Stream, and a four position joystick to move the monitor UP/DOWN/RIGHT/LEFT. Only one movement can be achieved at a time per joystick. Lights include Power On, Oscillation, Water Valve Open, Foam Valve Open, and Park. This box will operate the monitor(s) and can represent a stand alone system or can be configured to operate any monitor connected to the network.

**OCP as a Local Operator Control Panel (LOCP):**

- The OCP is connected directly to an MMCP and controls the monitor functions.

**OCP as a Remote Operator Control Panel (ROCP):**

- The OCP is connected to an LOCP by a CAT 5 ethernet cable or a 62.5/125 (with SC connectors) fiber optic cable. An ROCP can be configured to operate any monitor on the network.

**Features:**

- Construction – Stainless Steel enclosure rated for hazardous locations (Class 1, Division 2)
- Compliance – NFPA 70 NEC: 2008, Article 501 – Class I, Groups “B,C, & D,” Division 2 & Article 505 – Class I, Zone 2, AEx nA IIC T3 requirements; UL Labeled
- Power Capabilities - 120-240 VAC, 50/60 Hz.
- 240 VA MAX power
- Control Power – On/Off 2-position selector switch
- Controls – NEMA 4 (IP-66) controls. Joystick controls for monitor & nozzle movement (UP, DOWN, LEFT, RIGHT, STRAIGHT STREAM, & FOG) and push button controls for Park, Oscillation On/Off, Water Valve OPEN/CLOSE and Foam Valve OPEN/CLOSE
- Pilot Lights – Shows panel power on; water and foam valves open and park and oscillation functions on
- Conduit Knockouts and Hubs – Supplied by customer.

