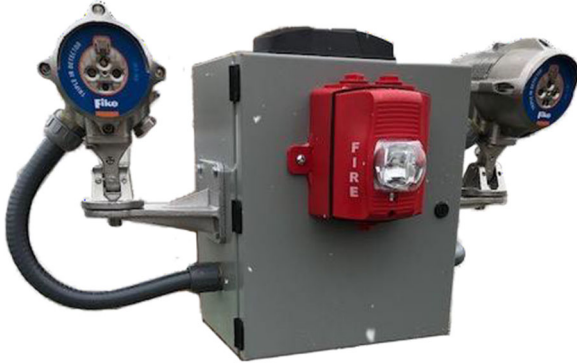


PORTABLE FIRE WATCH UNIT



Features

- Fike IR3-HD optical flame detectors
- ONVIF S conformant HD video cameras
- Optional smoke, oil mist, reflected flame and motion detection (video analytics)
- Email – Email to SMS alerts
- Optional central station monitoring
- Onboard horn/strobe
- Dry contact relay outputs
- Power loss monitored

Description

Fire Watch is a rapidly deployable, autonomous fire detection unit designed to monitor post-hot work and fire hazards in areas without detection systems or if the existing system is impaired or out of service.

The Fire Watch unit incorporates Fike IR3-HD explosion-proof, optical flame detectors that provide high immunity to false alarms and rapid detection of fires. When an event is detected, the unit will activate the onboard horn/strobe and send an email or SMS signal to alert plant personnel or first responders.

For indoor applications, onboard server-based analytics can be included for monitoring the HD camera video for smoke, oil mist, reflected flame, and motion. The video analytics are based on Fike's Video Analytics camera software.

Optional items can be added to the Fire Watch units at the time of order for applications with specialized environmental, detection, or reporting requirements. See Ordering Information for a description of the optional items.

Applications

- Temporary monitoring of fire hazards, indoors and outdoors
- Fire watch after hot work
- Construction site fire monitoring
- Petrochemical plant/refinery fire watch
- Corn stover storage fire monitoring
- Shipyard fire watch
- Ship lay-up fire watch
- Supplement to impaired fire protection equipment

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Ordering Information

Part Number	Description
02-17524	<p>Fire Watch unit, no video analytics</p> <ul style="list-style-type: none"> Includes 2 x IR3-HD cameras, horn-strobe, router, power supply and communication kit with antenna mounted to and within a NEMA rated enclosure Rapid installation kit included for fast mounting
02-17525	<p>Fire Watch unit, no video analytics</p> <ul style="list-style-type: none"> Includes 2 x IR3-HD cameras, horn-strobe, router, power supply and communication kit with antenna mounted to and within a Class 1, DIV 1 explosion rated enclosure Rapid installation kit included for fast mounting
28-0011	<p>Fire Watch unit, with Fike video analytics</p> <ul style="list-style-type: none"> Includes 2 x IR3-HD cameras, horn-strobe, server with Fike video analytics, router, power supply and communication kit with antenna mounted to and within a NEMA rated enclosure Rapid installation kit included for fast mounting
02-17526	<p>Fire Watch unit, with Fike video analytics</p> <ul style="list-style-type: none"> Includes 2 x IR3-HD cameras, horn-strobe, server with Fike video analytics, router, power supply and communication kit with antenna mounted to and within a Class 1, DIV 2 explosion rated enclosure Rapid installation kit included for fast mounting
02-17527	<p>Communication unit (optional)</p> <ul style="list-style-type: none"> Used to monitor multiple Fire Watch units mounted in locations with limited or no communication signal Connects to other Fire Watch units over facilities LAN Includes a horn-strobe, router, power supply and communication kit with antenna mounted to and within a NEMA rated enclosure Rapid installation kit included for fast mounting
02-17529	<p>Magnetic mounting kit (optional)</p> <ul style="list-style-type: none"> Allows the Fire Watch and Communication units to be magnetically mounted directly to a steel structure (1 per unit)
02-17528	<p>Cooling fan (optional)</p> <ul style="list-style-type: none"> Installs within the Fire Watch and Communication units Creates an airflow within the unit for cooling
02-17530	<p>Heater (optional)</p> <ul style="list-style-type: none"> Installs within the Fire Watch and Communication units Maintains a constant temperature within the unit in cold environments
02-17531	<p>Thermoelectric cooling fan and heater (optional)</p> <ul style="list-style-type: none"> Installs within the Fire Watch and Communication units Maintains a constant temperature within the unit in environments with extreme heat or cold Includes an external moisture drip for humid environments
02-17532	<p>CHEKT Bridge (optional)</p> <ul style="list-style-type: none"> Installs within the Fire Watch and Communication units Enables remote monitoring of the Fire Watch by a central station Includes live video access and email-at-alarm to end users Facilitates alarm and video verification through software commonly used by most central stations Central station monitoring requires a subscription
02-17533	<p>8M (26.25 ft) mast. Standalone, tri-pod unit that provides a safe and sure way to deploy the Fire Watch unit in areas that lack a means to mount the unit.</p>
02-17534	<p>10M (32.8 ft) mast. Standalone, tri-pod unit that provides a safe and sure way to deploy the Fire Watch unit in areas that lack a means to mount the unit.</p>
02-17535	<p>MAST collar. Attaches to the mast to secure the Fire Watch unit to the mast.</p>

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Specifications

IR3-HD Triple IR Flame Detectors		
Detection	Time and distance	40ms for fast fire burst or explosion 1.5s for 1ft ² (0.1m ²) n-heptane pan fire at 0-100 ft. (0-30m) 4.1s for 1ft ² (0.1m ²) n-Heptane pan fire at 100-230 ft. (30-70m)
	Field of view (IR detection)	90° Horizontal, 75° Vertical
	Time Delay	0-30 seconds (adjustable)
	Built in Test	Automatic and Manual
Video Functionality	HD Video	Allows clear imaging of fire and humans at 100 ft. (30m) distance
	Recording of alarm events	1-minute pre-event and 3 minutes post-event
	System integration protocol	ONVIF (Open Network Video Interface Forum) Profile S
Electrical	Operating Voltage	24 VDC nominal (18-32 VDC)
	Current Consumption	Standby: 180mA Maximum: 250mA all systems in operation
	Conduit Entries	2X conduit entries ¾" 14NPT or M25x1.5
	Wiring	12-20AWG (2.5-0.35mm ²)
Mechanical	Size	7.87 x 5.12 x 5.12" (200 x 130 x 130 mm)
	Weight	Detector (stainless steel): 9.8 lbs. (4.4 kg) Tilt mount (stainless steel): 5.4 lbs. (2.4 kg)
Environmental	Temperature Range	Operating: -67°F to +167°F (-55°C to +75°C) Option: -67°F to +185°F (-55°C to +85°C) Storage: -67°F to +185°F (-55°C to +85°C)
	Humidity	Up to 99% (RH), non-condensing
	Ingress Protection	IP66 & 68; NEMA 4X & 6P
Approvals*	Explosion proof	ATEX: II 2 G D** Ex db IIC T5 Gb or Ex db eb IIC T5 Gb and Ex tb IIIC T95°C Db -55°C<Ta<75°C Ex db IIC T4 Gb or Ex db eb IIC T4 Gb and Ex tb IIIC T105°C Db -55°C<Ta<85°C
		IECEX Ex db IIB T5 Gb -50°C≤Ta≤75°C Ex db IIB T4 Gb -50°C≤Ta≤85°C
	Performance	FM & FMC Class I, Div. 1, Groups B, C & D: T4 Class I, Zone 1, AEx/Ex db IIB T4 Gb T4 -50°C≤Ta≤85°C T5 -50°C≤Ta≤75°C
		ANSI FM 3260 & EN 54-10
Router		
Type	4G LTE, WiFi, GPS	
Carriers	All North American carriers, Europe & Asia Pacific	
Ethernet Ports	4 (2 router, 2 dock)	
Power	9-33 VDC	
Power Supply		
Outputs	24 VDC @ 6A or 12 VDC @ 6A Back-up Battery Terminal	
Input	115 VAC, 60 Hz, 1.9A (power grid or generator)	
Supervision	AC Fail, Battery Fail	
Protection	Short circuit and thermal overload protection	

*Designed and tested to relevant approval standards (camera only).

**Where ATEX approval is required (camera only), contact Fike at 1-800-979-3453 (option 2,1) for ordering information.

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Antenna	
Type	5-in-1 (GPS + 2 cellular + 2 WiFi)
Cables	2 ft. (0.61m)
Connectors	GPS: SMA Cellular: SMA WiFi: RP-SMA
Monitoring	
Type	Environment and Analog Input Monitor
Power	PoE: IEEE802.3af 6-12VDC @ 250mA
Monitoring	4 analog dry contact inputs (NO/NC selectable) Temperature and Humidity Real-time sensor data feeds IP Camera integration
Reporting	Email and Email-to-SMS Alerts Triggered NO/NC Relay
MODBUS Communication	
Type	RS485 to Ethernet
Function	Convert RS485 MODBUS traffic to TCP/UDP traffic for Ethernet transmission and vice versa
Remote Communication	
Type	Cell tower coverage, LTE (default) Local WiFi Ethernet LAN/WAN
Enclosure	
Material	Painted Steel
Dimensions	16 x 14 x 8" (406 x 356 x 203 mm)
IP Rating	66/68
NEMA Rating	1/3R/4/4X/6P/12
Flammability Rating	UL94-5VA
General	
Weight	65 lbs. (29.5 kg)
Dimensions	16 x 30 x 8" (406 x 762 x 203 mm)
Operating Temp.	-20°C to 60°C (-4°F to 140°F) 0°C to 50°C (32°F to 122°F) optimal
IP Rating	66,67,68
Server*	
Type	Compact Server
Power	19 VDC @ 1.5A
Operating System	Windows 10
RAM	8GB DDR4, 2400MHz
Processor	Dual-Core Intel i3-8109U, 3.0GHz
Hard Drive	128GB m.2 SSD (larger available)
Dimensions	4 x 4 x 2" (102 x 102 x 51 mm)

*Server is applicable to Fire Watch POD with analytics (P/N 28-0011) only.

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