Alarm & Signaling

IFWPRODUCTS LLC
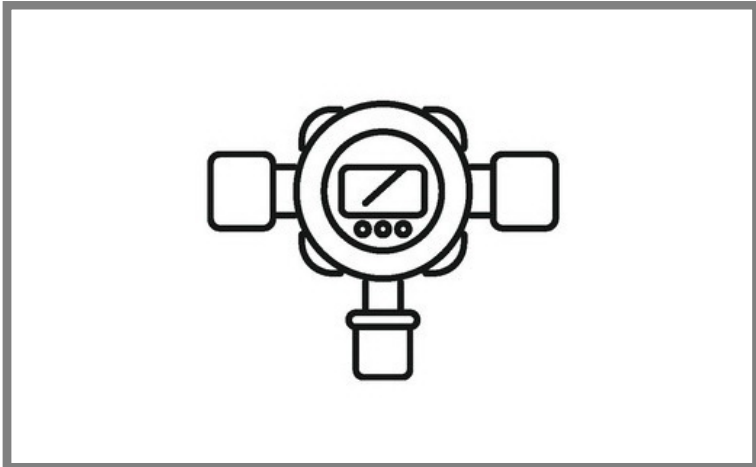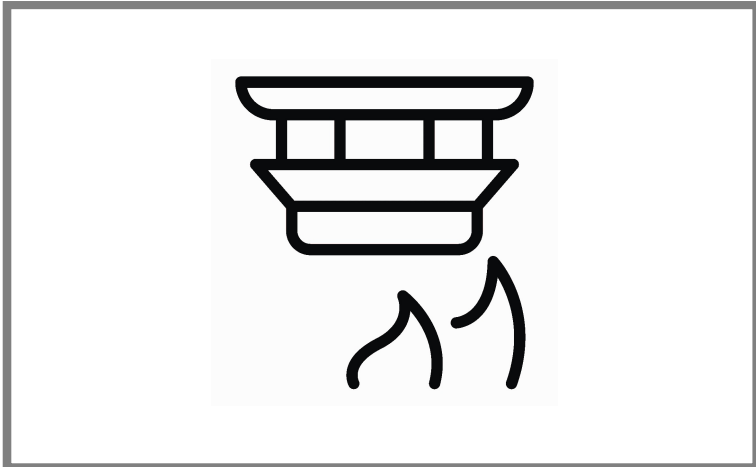FIRE PROTECTION

IFW Products LLC is a dynamic, energetic company located near Boise, Idaho. Originally established in Orange County, California in 2017, we relocated to the Boise area in 2019. Our business is to serve the fire protection and life safety needs of a broad cross-section of industries: energy, mining, manufacturing, food processing, wastewater treatment, and many others. Our experience with this diverse array of users enables us to offer one of the largest selections of first line equipment available from a single source. To serve the needs of this diverse clientele we offer:

- Quality products from established, reputable manufacturers

- Prompt shipment from stock on popular items

- Access to complete manufacturer product lines

- Responsive customer service with extra attention paid to getting things right the first time

- A resourceful, "can do" attitude

This brochure is designed to acquaint you with the various products we have to offer. We welcome your inquiries and invite you to put our expertise to work for you.

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8:30 AM to 4:30 PM
Mountain Time

Electrical detection, control, and signaling hardware is often incorporated into fire protection systems, providing automatic actuation and alerting plant personnel with early warning of a fire condition. IFW can provide any and all of these products including smoke, heat, flame, and gas detection, controls, occupant notification, and off premises signaling.

Control Panels monitor the initiating device circuits (IDCs). A signal transmitted by a smoke or heat detector, manual station, or other initiating device causes the fire alarm control panel (FACP) to respond by activating notification alarm circuits (NACs) that control audible and/or visual signals, as well as other functions if the panel is so equipped. Typically the panel operates on 120 VAC, 50/60 Hz power and is equipped with a battery backup feature.

Initiating Devices provide manual or automatic initiation of the system. Manual stations can be used by the facility's occupants to manually activate the system if necessary. Heat detectors are used in areas where smoke detectors would be likely to cause false alarms, such as kitchens, to sense high temperatures, and can be of either fixed temperature type or combination fixed temperature and rate-of-rise. Smoke detectors provide early warning of fire by detecting products of combustion before they become visible to the human eye. Water flow and supervisory switches monitor various fire sprinkler system components, and initiate the fire alarm system when water flows through an alarm valve or a system control valve is opened. Carbon monoxide, flame, and combustible gas detection is also available.

Notification Appliances are used to alert a facility's occupants and/or the general public to the existence of a fire emergency. Bells provide a rapid-fire ringing tone, and are required by most jurisdictions. Speakers, horns, strobes, and combination units may also be specified.

Accessories of all types are available, and include door holders, alarm station covers, remote annunciators, etc. etc.

Releasing Control Panels

Used with deluge and preaction fire protection systems to monitor system initiating devices and activate visual and/or audible alarm notification appliances • Compatible with conventional input devices, including water flow switches, tamper switches, 2 and 4 wire smoke detectors, manual pull stations, and other normally open (NO) contact devices

Manual Alarm Stations

Provides a means of manually initiating an alarm system • Single action, lift-and-pull, and key lock versions available • Weatherproof and explosion proof models available

Smoke Detectors

Detects products of combustion that result from fire • Transmits an electrical impulse to activate one or more of a fire alarm control panel's initiating device circuits (IDCs) • Photoelectric sensing technology is responsive to smoldering fires • Models available with built-in thermal detector

Heat Detectors

Used in fire alarm systems for property protection against fire • Available in fixed temperature and combination fixed temerature/rate-of-rise types • 135° F and 194° F temperature ratings • General purpose and explosion proof models available

Flow Switches

Used to detect flow of water through a sprinkler system • Transmits an electrical impulse to activate audible and/or visual alarms • Continuous water flow equal to discharge from one sprinkler actuates switch • Synchronized switches activate alarm panel and local alarm bell simultaneously • Aluminum switch enclosure • Two SPDT contacts • Adjustable 0-90 second time delay minimizes false alarms • UL listed • FM approved • CSFM approved • For use with Sch. 10 to Sch. 40 pipe

Supervisory Switches

Detects unauthorized operation of a control valve • Transmits an electrical impulse to activate audible and/or visual alarms • Synchronized switches activate alarm panel and local alarm bell simultaneously • Aluminum switch enclosure • Two SPDT contacts • Suitable for outdoor use • UL listed • FM approved • CSFM approved

Initiating Devices • Audible & Visual Signals

Pressure Switches

Used in sprinkler systems to detect the discharge of a sprinkler head and/or supervise the air supply pressure in piping systems or water tanks • Single or dual SPDT switches • Field adjustable pressure sensitivity • UL listed • FM approved • CSFM approved

Horns & Strobes

Provides audible and/or visual notification when installed in fire sprinkler systems • Designed to meet ADA requirements for candela and decibel output • Field adjustable candela setting • 12 or 24 VDC • 120 VAC models available • UL listed • FM approved • CSFM approved

Bells

Used for to indicate an alarm condition in a fire protection system • Produces a continuous, rapid fire ringing tone • DC fire alarm bells are diode polarized for use in supervised alarm systems • General purpose bells are used for timing, scheduling, paging, and other non-fire alarm applications • Gongs sized from 4" to 10" • AC voltages from 12 VAC to 240 VAC • 12 or 24 VDC

Audible Signals

Used in fire alarm systems or in applications where an attention getting sound is needed for paging, timing, and other notification applications • Variety of voltages available, from 12 VDC to 240 VAC • Products include: horns, sirens, amplified speakers, buzzers, and air horns • Indoor, weatherproof, and explosion proof signals available

Visual Signals

Provides an attention-getting means of communicating the existence of a variety of conditions • Various colors have universally understood meanings that can indicate equipment status, warning of an imminent problem, or emergency • Strobe beacons • Flashing or rotating beacons • Steady-on beacons • Stack lights

Explosion Proof Signals & Controls

Used in areas where electrical equipment could provide an ignition source due to the presence of flammable or combustible gases, dust, fibers or flyings • Audible and visual signals • Smoke and heat detectors • Manual stations • Switches and pushbuttons • Enclosures and conduit boxes
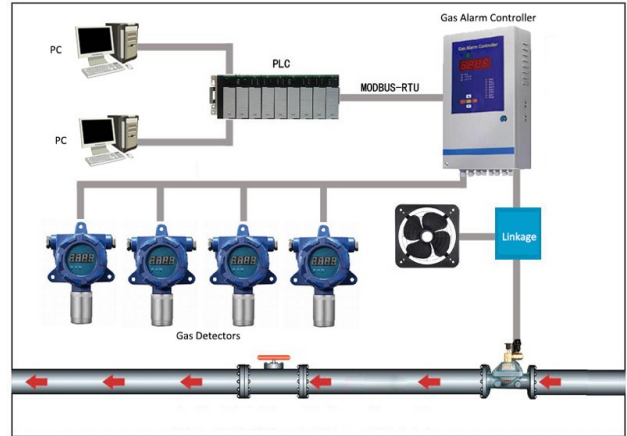
Fire Detection

Used in applications where fast flaming fires can occur, such as oil and gas pipelines, turbine enclosures, off-shore platforms, automotive manufacturing facilities, aircraft hangers, munitions plants, nuclear facilities, and clean rooms • The detectors are optical devices that can sense radiation in the ultraviolet (UV) and/or infrared (IR) spectrums • When a fire is detected, a signal is sent to the system's controller(s), which activate various systems that can include fire suppression, audible and visual signals, alarm and central station monitoring, emergency fuel and process shutoffs

Sample system layout

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Gas Detection

These systems are used to detect the presence of flammable and/or toxic gases and vapors, including methane (CH4), carbon monoxide (CO), ammonia (NH3), hydrogen sulfide (H2S), and many others as well as oxygen deficiency • Common applications include mining, petroleum refining, manufacturing, food processing, indoor air quality, and parking garages • Sensors are designed to detect gases in the lower explosive limit (LEL) and parts-per-million (PPM) range, providing early warning of potentially life threatening conditions • Sensors function by sending a signal to the controller(s), which activate various systems that can include audible and visual signals, alarm and central station monitoring, emergency fuel and process shutoffs, and ventilation systems

Refineries are a typical application where fire and gas detection systems are found

Wastewater treatment is another industry where gas detection is commonly used

Custom Control Panels

In addition to the system hardware shown elsewhere in this brochure, IFW Products offers custom solutions to your control panel requirements.

We partner with UL 508A and Canadian UL approved instrumentation and control systems panel builders, where all types of panels from the most basic to the most complex are designed and built. Every panel is fabricated to approved drawings, and is functionally tested before delivery. Panels have been built for public agencies and major corporations in a variety of industries, including water & waste water treatment, power generation, food and beverage, petrochemical processing, and oil refining.

We provide:

- Control panel design and fabrication
- Process and instrument diagrams
- Control loop details and schematics
- Submittals and AutoCAD drafting
- PLC programming with full documentation
- PLC & HMI software configuration
- Operation and maintenance manuals

To inquire about these products, contact our project estimating team.
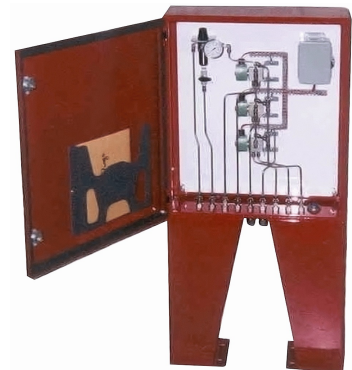
Brand Index

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