



Ignition And Flame Safety Solutions

The main title is positioned on the right side of the page. It is set against a dark background that is partially obscured by a large, thick, orange curved graphic element that sweeps from the top right towards the center. The text is in a bold, white, sans-serif font.



The performance of your flares, burners, pilots and gas turbines start with successful ignition. That's why companies worldwide rely on Chentronics' High Energy Ignition and flame detection technology. More than 40 years of innovation and practical experience with fuels from gas to bunker-grade crude has made us an industry leader in High Energy Ignition. Our products are state-of-the-art, high-performance, cost-effective solutions for your toughest applications. Our products utilize solid-state technology and have a wide range of agency certifications.

THE MOST IMPORTANT QUESTION:

CAN YOU AFFORD TO COMPROMISE?

Chentronics solutions are proven reliable, effective and cost-efficient. If you'd answer "yes" to any of these questions, you should call us.

DO YOUR IGNITER TIPS FAIL WITHOUT WARNING?

The best way to maintain high ignition reliability is to know when ignition faults are going to occur so you can replace the igniter tip *before* that happens. Our SmartSpark, SureSpark, FastFlame and Motivator products all feature fully-integrated igniter tip wear diagnostics so you can do just that.

WOULD YOU LIKE TO ELIMINATE THE HASSLE AND EXPENSE OF KEEPING BACK-UP STARTING FUEL SUCH AS PROPANE ON-SITE?

Chentronics specializes in direct, primary fuel combustion—whether the fuel is gas, light oil, diesel or residual fuel. Our experts leverage more than 40 years of ignition experience and an unsurpassed knowledge of ignition optimization to create reliable solutions. By developing innovative, proprietary designs and utilizing solid-state technology, we deliver unparalleled ignition reliability and repeatability so you can avoid the cost and hassle of building and maintaining a back-up starting fuel system.

HAS MOISTURE CONTAMINATION EVER CAUSED AN IGNITION SYSTEM FAILURE?

Moisture can cause a failure to light both in the short-term and over the long-term. In the short-term, assuming the fuel is in a combustible state, Chentronics' optimized spark energy delivery technology is unsurpassed in its ability to start in high-moisture conditions. If it *can* ignite, it *will* ignite with our High Energy systems.

Over the long term, high-moisture environments can cause the igniter tip, harness and even the exciter to fail—especially with high tension-type ignition systems. Chentronics offers multiple sealing technologies that can be placed in the igniter tip and/or the harness/cable. These seals keep moisture out and protect your system from damaging moisture ingress.

DO YOU REQUIRE DC POWER INPUT?

Chentronics offers both AC-powered and DC-powered exciter options for nearly any application. You'll get reliable ignition even for hard-to-ignite primary and backup fuels.

DO YOU WANT TO CUT THE COST OF YOUR IGNITION SYSTEM OPERATING AND CAPITAL COSTS?

Chentronics High Energy Ignition solutions are designed to provide state-of-the-art, high-performance, cost-effective solutions for your toughest ignition applications. Let us show you how we can cut your costs while increasing ignition reliability and repeatability.

SureSpark™

SmartSpark™

FastFlame™

Motivator™

iScan

iScan3

IVN

SureSpark

HIGH ENERGY IGNITION SYSTEM

The most reliable fuel ignition for your toughest combustion applications – even in high-moisture areas.

- Built-in predictive life diagnostics
- Unsurpassed fuel type diversity
- Moisture seal-out designs of igniter tips and cables
- Hazardous area rating
- AC and DC input power options

SmartSpark

HIGH ENERGY IGNITION SYSTEM

Reliable ignition that automatically monitors tip wear so you can replace the igniter tip before an ignition fault occurs.

- Built-in predictive life diagnostics
- Unsurpassed fuel type diversity
- Certified: ATEX and ETL Listed Class 1, Div 2, Groups A, B, C and D
- Compact design for easy burner front mounting

FastFlame

SIMULTANEOUS HIGH ENERGY IGNITION AND FLAME DETECTION SYSTEM

Get real-time results from a single system.

- Combines High Energy Ignition and flame detection in a single system
- Ignites and detects flame simultaneously
- Provides flame confirmation, the moment flame becomes present
- Can shorten your flame proving window to half the time

Motivator

HAND-HELD HIGH ENERGY IGNITER

Heavy-duty ignition power in the palm of your hand.

- Convenient portability
- Easy-to-use, familiar "hand-held drill" design
- Tailored for gas fuel light-off
- Reduces exposure to chemicals, open flame, and imprecise light-offs

iScan2

FLAME SCANNER

Innovative digital signal processing technology can discriminate the target burner flame from background flames or hot refractory surfaces.

- Compact, light-weight, "all-in-one" design
- Proven with gas, light oils, heavy oils, biomass and coal
- Simultaneous UV and IR radiation spectra detection capability
- Senses and amplifies small flame signals (low noise floor + superior gain)
- Remote communications and diagnostics
- Easily replaces existing scanners and interfaces with existing control systems

iScan3

FLAME SCANNER

Builds upon the proven performance of the iScan2 flame scanner, adding several design improvements and benefits.

- Exclusive, at-a-glance Ring of Light for quick, clear communication and simplified aiming during installation
- Expanded ambient temperature rating (-40°C to 80°C)
- Durable stainless steel design
- 50% smaller than iScan2, for easier installation and aiming
- Quick disconnect for hazardous areas
- Proven with gas, light oils, heavy oils, biomass and coal

IVN

HE PILOT IGNITION AND FLAME DETECTION SYSTEM

Ideally suited for gas pilots. Provides High Energy ignition and flame rod type flame detection in a single compact solution.

- Simultaneous ignition and flame detection
- Single point of entry: one probe sparks and senses flame
- Exclusive, at-a-glance Ring of Light for quick, clear status communication
- Compact design for easy installation
- Quick disconnect for easier field wiring



PROVEN PERFORMANCE. TRUSTED SOLUTIONS.

CHENTRONICS AT A GLANCE.

EXPERIENCE AND EXPERTISE:

For more than 40 years, Chentronics has produced patented technologies through extensive research and development, with thousands of High Energy Ignition Systems installations worldwide. Certified since 2004 and ISO 2001:2015 certified.

PRODUCT CERTIFICATIONS:

CE, UL, cUL (CSA), and ATEX.

INDUSTRIES:

Chentronics systems are trusted globally in the utility, industrial, petrochemical and marine industries.

APPLICATIONS:

Chentronics provides innovative ignition and flame safety solutions for a variety of applications including:

- + Pilots/warm-up guns for utilities and large industrial applications
- + Flares
- + Gas turbines
- + Marine and stationary boilers
- + Process and refinery heaters
- + Thermal oxidizers



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UTILITIES | INDUSTRIAL | PETROCHEMICAL | MARINE | GAS TURBINES | BURNERS | PILOTS | FLARES