

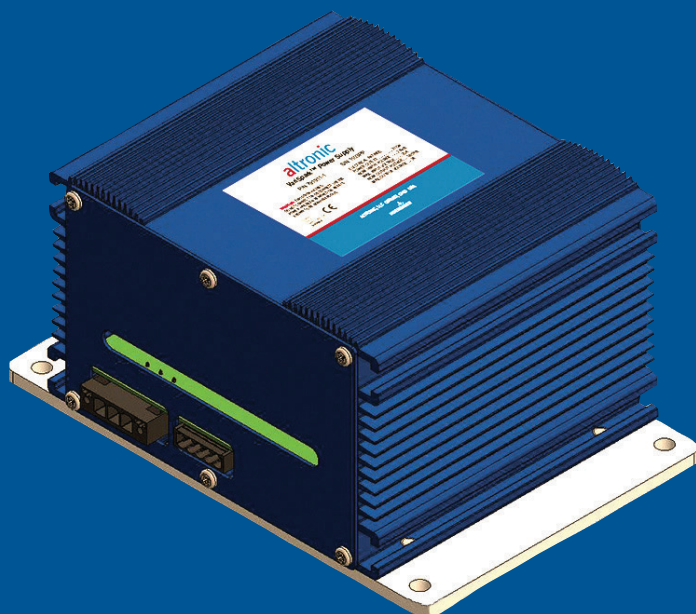
VariSpark® Ignition Family

VariSpark Digital Ignition Systems for Natural Gas-Fueled Industrial Engines

The Altronic VariSpark ignition technology is designed to deliver unparalleled combustion assurance to operators of natural gas fueled engines from 10 to 10,000 horsepower. Available as a cost-effective upgrade to existing installations—CPU-95EVS and CD200EVS, for new installations—CPU-XL, CPU-XM, and CPU-XS stand-alone systems, and as an integrated part of an engine management system—CPU-XM and CPU-XS slave systems, the VariSpark family of products introduces a new standard in ignition system operation.

The impact on engine operation: assured combustion of leaner mixtures, the ability to operate at higher efficiencies, and extended service intervals.

For a summary review of the primary feature sets and application ranges of the products that make up the VariSpark ignition system product line, please see the matrix on the reverse.

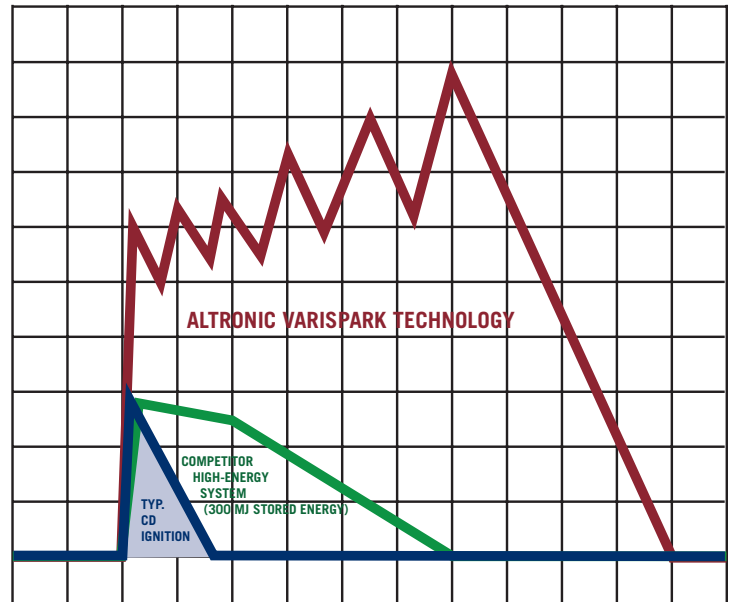


VariSpark Ignition Family

	CPU-XL VariSpark	CPU-XM VariSpark	CPU-95EVS (Enhanced VariSpark)	CPU-XS VariSpark	CD200EVS (Enhanced VariSpark)
VariSpark Ignition Technology	Yes	Yes	Yes	Yes	Yes
System Diagnostics and Communication to Engine Management Systems	Yes	Yes	Yes	Yes	Yes
Next Generation Diagnostics and Communications	Yes	Yes	-	Yes	-
Standalone Ignition Capability	Yes	Yes	Yes	Yes	Yes
Slave Ignition Capability	-	Yes	-	Yes	-
Maximum Engine Cylinders	20	24	16	12	16
Typical Application	Large-bore, slow-speed, integral compressor engines	Medium-bore, high-speed, power generation and mechanical drive engines		Small-bore, high-speed, power generation and mechanical drive engines	
Typical Migration Path	Altronic II, CPU-II, CPU-2000 Ignition Systems	Altronic III, CPU-90, CPU-95 Ignition Systems		Altronic V, CD1, CD200 Ignition Systems	

The VariSpark Difference

VariSpark represents a wholesale departure from traditional CD ignition systems—a system that discharges a storage capacitor through the ignition coil during firing. VariSpark technology utilizes a specialized power supply and high-speed switching technology to positively control the delivered spark energy. This provides the capacity to independently control spark intensity and duration—in many cases delivering energy orders of magnitude higher than any other ignition technology. The graphic at right shows the typical secondary current delivered to the spark-gap by different ignition technologies, the performance of VariSpark is clear. The VariSpark discharge is delivering ignition energy more than five to ten times higher than traditional CD and other competing technologies—this is *The VariSpark Difference*.



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