

TI100

HIGH ENERGY IGNITION SYSTEM

SIEMENS (RUSTON) - TA1750 & TB5000

Benefits

- Built-in predictive life diagnosis
- Unsurpassed fuel-type diversity
- Sparks-per-second (SPS) optimized for different fuels
- Pressure seal of ignitor tips and cables
- Hazardous area rating
- AC and DC input power options
- ETL listed, complies with CE, UL, CSA options for ATEX
- Solid-state technology
- Improved spark intensity
- Reliable lightoffs
- No more failed starts due to poor ignition
- Works with liquid and gaseous fuels

Specifications

Mechanical:

304SS Sealed Enclosure
Box dimensions: 3"dia x 8.5"
Net Weights: 5Lb.

Input Power:

12-30 VDC 3 Amps Max

Stored Energy:

3 Joules Minimum

Spark Rate:

2-6 Sparks per second typical

Temperature:

-25°C to 85°C

Duty Cycle:

30 seconds on, 1 minute off (30%)

APPLICATION

Ignition systems for igniting fuel in a turbine engine have been in wide use since the 1950's. Although a great variety of systems exist today, they have remained fundamentally unchanged since that time. Whether you have small to large gas turbines, upgrading to high performance and reliable ignition system is the key to continuous operation of gas turbine. Substituting the OEM ignition system with a High Energy Ignition system will increase consistent and reliable lightoff of your gas turbine. The TI 100 can provide 2-6 Sparks per second at the factory setting at 4SPS nominal.

COMPONENTS

The components of a gas turbine ignition system are exciter, ignition lead, ignitor plug, and housing for the ignitor that is specific to the model of gas turbine. Multiple exciters, a set of ignition leads, and a set of ignitor plugs may be required for spark ignition systems used in industrial gas turbines. The service life of ignition systems used for industrial gas turbines is generally expressed in terms of number of hours.

HIGH ENERGY OUTPUT

Many turbine ignition systems use spark gaps. In effect, there is a release of stored energy across a gap when a capacitor stores a sufficient charge. As the gap in the igniter wears, the igniter requires more voltage to fire and the output voltage from the igniter decreases. The TI 100's advanced design eliminates this phenomenon of decreased power with age. The TI 100 spark will only increase in intensity as the igniter tip wears.

RETROFIT KITS AVAILABLE

Kits are currently available for Ruston TA-1750 and TB-5000 as well as GE Frame 3 or Frame 5/6 Gas Turbines.



High Energy Ignition System with Exciter and Igniter



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