

IGNITION SYSTEM FOR GAS TURBINES

HIGH ENERGY IGNITION SYSTEM

**Include Exciter and Igniter TI-100
for Gas Turbines**

BENEFITS

**IMPROVED SPARK
INTENSITY**

RELIABLE LIGHT-OFFS

**NO MORE FAILED STARTS
DUE TO POOR IGNITION**

**WORKS WITH BOTH LIQUID
AND GASEOUS FUELS**

**OVERCOMES PROBLEMS
DUE TO CONDENSATION**

**12 VDC OR 120 VAC POWER
OK**

LONGER LIFE IGNITER

APPLICATION

Gas turbines, whether burning liquid or gaseous fuels, all require a robust ignition source to provide reliable light-offs. The TI 100 improves upon many of these OEM systems by providing a high energy spark that will overcome ignition problems such as condensation on the igniter. The TI 100 can provide these high energy sparks at a rapid rate of up to 21 sparks per second.

COMPONENTS

The ignition system consists of four components: the Exciter, the Igniter, the Input Lead to connect the Exciter and Igniter, and a Housing for the Igniter that is specific to the model of gas turbine.

EXTENDED LIFE

The Igniter itself is expected to last at least 600 starts. The Exciter is expected to last more than 3000 starts.

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. In fact, 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 Gas Turbines.



*High Energy Ignition
System with Exciter
and Igniter*

ANALOG FLOW CONTROL

85 to 265 VAC or 18-32 VDC

NET WEIGHT

10 lbs.

OPERATING TEMPERATURE

-25° to +75° C

DUTY CYCLE

5 Minutes On, 10 Minutes Off

OUTPUT HARNESS

XXXXXXXXXXXXXX

CONSTRUCTION

Nickel Braid (Waterproof)

IGNITER TIP

XXXXXXXXXXXXXX

MAXIMUM TEMPERATURE

1000° C

OPTIONS

Hazardous Area EExd,
Group IIC

Safe Area Only

VOLTAGE

3000 VDC Maximum



High Energy
Exciter



Igniter



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