

# IGNITION CONTROLLER TEST



## Application

System for functional and parametrical test of ignition systems for gas turbine engines. Measurements on control functions, high voltage parameters and arc quality. The system test a single controller at a time but can interface to different types by means of a fixturing concept developed by the customer.

The system is serviceable via remote connection.

## Software

Based on Teststand and Labview using a modified sequential process model. User Interface with emphasis on graphing and displaying the measured parameters on each unit.

Product diversity handling takes care of handling varying test limits and stimulus that changes depending on the specific variant of the UUT .

Data logging in a custom formatted SQL database that leverages DSE's Statistical Process Control package.

Product Diversity handling, data logging and the Graphical User Interface (GUI) is implemented using DSE's EasyStand toolbox.

## Hardware

GPIB instruments selected by the customer because of known good performance experience from their R&D laboratories. Special mechanics for controlled arc-chamber with the possibility to change the gas media in the arc chamber. High voltage probes enables measurement and analysis of the arc current via the GPIB scope. High voltage connections between the test rack and fixturing system are handled by rugged connectors that ensures signal integrity.