

PROVIDING AUTOMATED TEST SOLUTIONS FOR ENGINE TEST CELLS

The eGENT system is as a state-of-the-art turnkey data acquisition and control solution for gas-turbine engine test cells. It is designed with safety and precision in mind to replace aging, unreliable, and unsupported instrumentation equipment.

X Technologies, Inc. is leading the way in providing its customers with a data acquisition and control system to accurately measure desired engine performance, facility, and parameters. The eGENT system boasts engine test software that performs detailed calculations while monitoring the engine-under-test, and alerts operators to any dangerous out of performance limit conditions. Additionally, the system can be accurately calibrated by correlating measurements with known and accepted standards.

The eGENT application software provides easy to read gauges, indicators and displays. It has the ability to record the collected data and printout customized detailed reports.

Key Features

- Data Acquisition and Control System
- Analog and Discrete signals
- High accuracy and low tolerance
- Application specific software – run time performance monitoring, alarms, and post-process report generation.
- Easy to read gauges, and numeric & discrete indicators
- Back-up system for critical measurements
- Expandable to fit multiple engines & facilities
- Environmentally controlled instrumentation
- Compact, reliable, and robust system
- Integrates diverse collection of hardware



[Additional/Other/Optional] Features

- Low power consumption
- Touch screen monitor
- Calibration and correlation capabilities
- Counter/Timer capabilities
- Simulation capabilities
- Throttle System – provides electronic engine control
- CCTV system
- System security
- Safety system – Battery back-up Uninterruptable Power Supply, manual override, emergency engine stop, and emergency facility shutdown, etc.
- Custom cabling to interface with the engine, instrumentation, test cell, and power.
- Commercial off the shelf parts for enhanced affordability

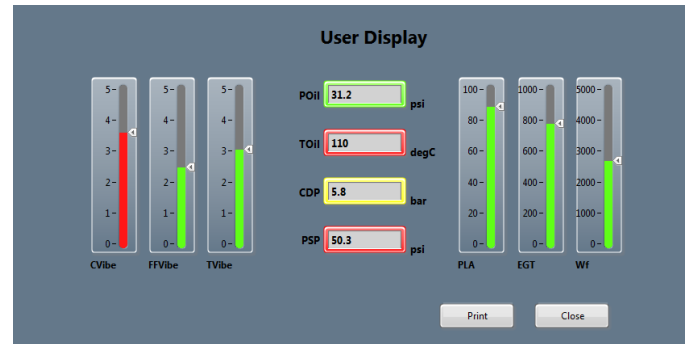


Throttle Quadrant

Performance Displays

Measured Parameters

- Pressures – Gas and Liquid Media
- Temperatures – RTD and Thermocouple
- Vibrations
- Frequency – Media Flow & Engine Speeds
- Throttle & Blade Angle Position
- Thrust
- Torque
- Raw Voltage
- Discrete Inputs/Outputs



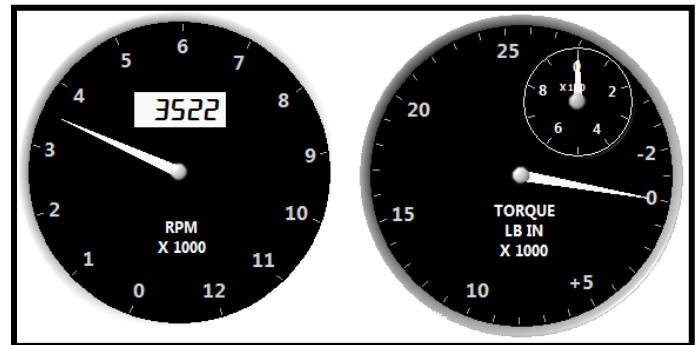
Numeric Displays



COTS Instrumentation Rack

Benefits

- Safety and protection design
- Highly accurate measurements
- Fast response
- Maximizes productivity
- Powerful and flexible reports
- Easily expandable
- Minimized risk
- Cost effective architecture/design
- Designed for long product support life
- On-site installation and training
- Logistic Support



Gauge Displays

Specifications

Power	115 - 230V, 50/60Hz
PC	Multi-Core Processor
Memory	8 GB RAM, 1 TB HDD
Operating System	Multi OS
Interfaces	Keyboard, Mouse, Printer
Networking	Gigabit Ethernet

System Software	XTI eGENT
DAQ	Over 100-channels of analog inputs, outputs, and digital I/O lines; Up to 1KS/s
Response	< 10 ms response to analog data
Data Logging	Multiple rates; full run, events

With a strong reputation in the development of Automatic Test Equipment, X Technologies is confident in our ability to provide our customers with world-class, cost effective, tailored solutions. Our comprehensive configurable software and hardware designs enable the creation of versatile, scalable, multi-vendor solutions.