

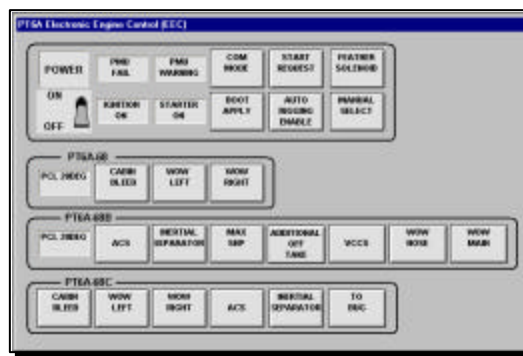


PT6A-68 ELECTRONIC ENGINE CONTROL (EEC)

CEL-EEC 20221A Technical Specification

Features:

The CEL-EEC 20221A is an electronic control panel designed for the aerospace industry to test the Pratt & Whitney PT6A-68 family of engines. The control panel provides an interface to control and measure parameters from the electronic engine control. The unit is an integral component in the testing of the PT6A-68 family of turbo-prop engines. The combination of computer controlled hardware with touchscreen and embedded real-time software technology provides a test environment with optimum operator interaction and ease of testing.



Pt6a-68 Electronic Engine Control (EEC)

General description:

- Designed in accordance with latest Pratt & Whitney EEC panel configuration. Replaces manually operated control panels PWC 32098.
- Designed as a completely automated computer interface control.
- Designed to accommodate the entire family of PT6A-68 turboprop engines.
- Designed to interface with Pratt & Whitney engine harnesses.
- Designed with quality components make the PT6A-68 CEL-EEC a highly reliable and highly affordable system solution.
- Designed for ruggedized harsh environment with extended temperature range of operation. (Engine Test Cell).
- Designed to be easily integrated with existing test cell facilities. Results in minimum down time for installation.
- Designed using touchscreen for human machine interface (HMI) compatible with Pratt & Whitney testing manuals.
- Designed to be easily configured for future PT6A-68 variants.



Engine models:

PT6A-68, PT6A-68B, PT6A-68C

Functions:

Monitors engine parameters:

- Power control lever switch position
- Power management system status (fail / warning)
- Ignition status
- Starter status

Control engine functions:

- Control of power to EEC
- Shutdown / start
- Feather solenoid
- Cabin bleed
- Left / right weight on wheel
- Nose / main weight on wheel
- Inertial separator control
- Automatic rigging
- Manual select
- Torque bug
- Air conditioning
- Additional take-off
- Maximum shaft horsepower
- Com mode control
- Boots apply control

Communication:

The CEL-EEC PT6A-68 may be configured to communicate with existing data acquisition system using one of the following:

- RS-485 half-duplex communication
- RS-232 serial communication
- Ethernet 10/100 base T communication

Software language:

QNX real time operating system / Windows XP

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