

OPTIMIZER

ENGINE CONTROL SYSTEM

Engine Controls Update for High-Speed, Fuel-Admitted Engines

- Comprehensive control and protection for fuel-admitted engine-driven natural gas compressor and pump packages
- Retrofits new Altronic and Altronic Controls technology to the new or existing package
 - Governor and Speed Control
 - Air/Fuel Ratio and PCC Pilot Fuel Control
 - Digital Ignition and Timing Control
 - Start/Stop and Sequencing Control
 - Process Monitoring and Safety Shutdown
 - Vibration Protection
- “Universal” design allows a common control system to be utilized across a range of applications
- Integrated system designed to meet and/or exceed the performance and emission certifications of the engine
- Systems commissioned and optimized by Altronic Controls startup engineers
- Uses proven, off-the-shelf technology, easily supported in the field
- All operating data is available from the front of the control panel as well as serially via ModBus RTU communications

SUITABLE APPLICATIONS:

Superior “Clean-Burn” GTLA/GTLB, SGTA/SGTB, 1700/2400 RAM, and MEP engines

Many engine/compressor control packages, once seen as state-of-the-art, no longer



BENEFITS

- Improved startability
- Better fuel efficiency
- Reduced misfire rate
- Controlled exhaust emissions
- Greater reliability

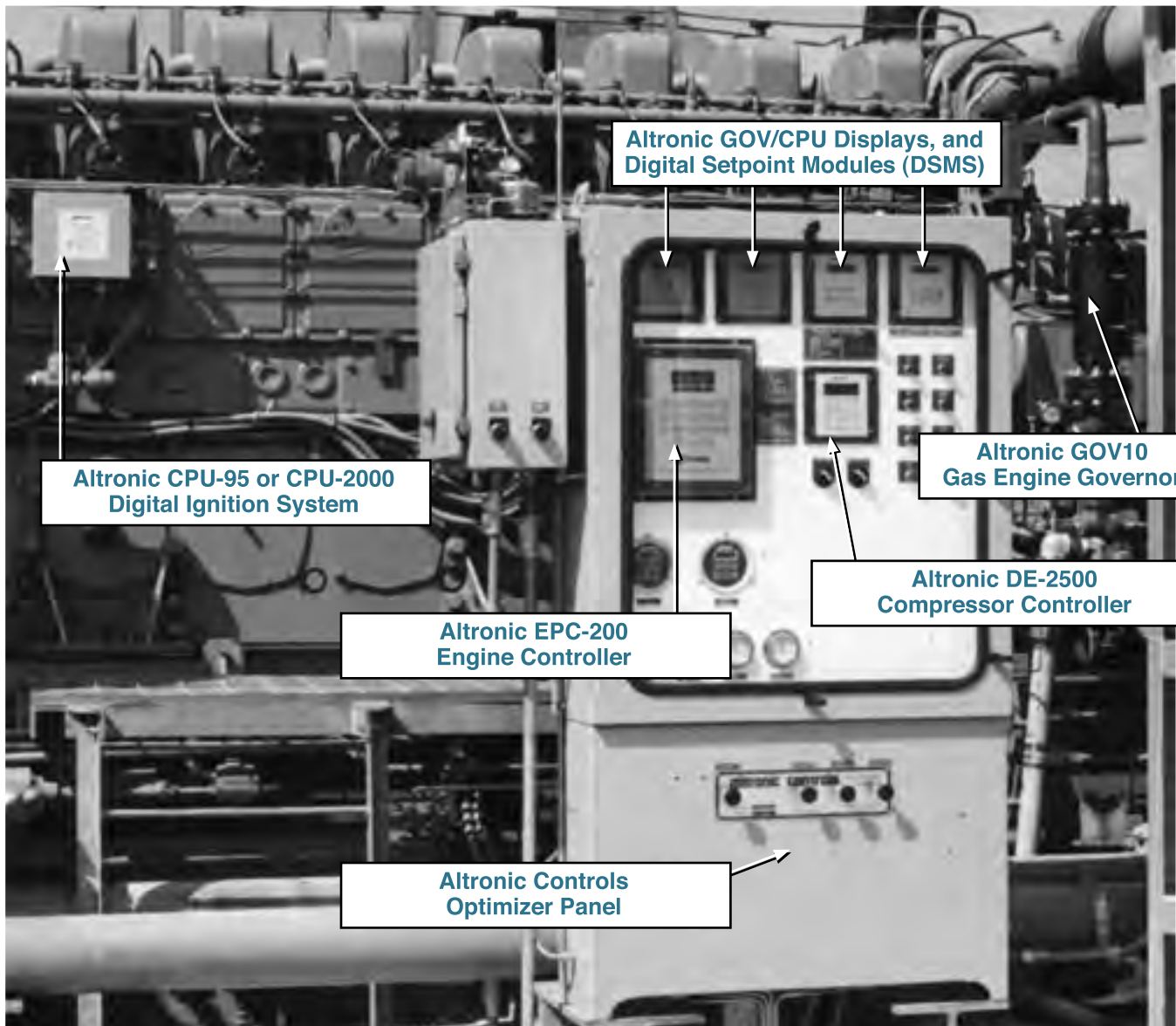
meet the operating requirements of the user. Given the demanding run cycles, requirement for engine/compressor up-time, widely varying loads and field conditions (including fuel gas quality), reduced operating and mechanical services personnel, and declining technical support for these older engine lines, engine controls can quickly become the weak link. The Altronic Controls OPTIMIZER systems offer new life to existing high-speed, fuel-admitted engines with ineffective or obsolete control systems. The ultimate benefit to the customer is an engine that starts more easily and operates at or below its certified emissions levels, while also delivering improved fuel consumption and greater overall engine reliability.

The goal of the Altronic Controls OPTIMIZER system is to restore stability, safety, and operating/emissions performance compliance to the compressor package by introducing reliable, industry-accepted and tested controls. Current operators of OPTIMIZER systems from Altronic Controls have noted the flexibility and power of the system controls and the simplicity in making adjustments to critical parameters such as engine start sequence, air/fuel ratio curves, ignition timing, and speed governing parameters.

Startup assistance is a critical part of any OPTIMIZER panel installation. Altronic commissioning engineers are available to support the startup and commissioning of each OPTIMIZER control panel application to fully optimize its performance. Authorized Altronic Central Distributors stand ready with trained and experienced service crews to perform full turnkey installations should they be required.

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Typical OPTIMIZER Control Functions

- Engine speed control and governing
- Primary engine air/fuel ratio control
- Pilot (PCC) fuel control
- Ignition timing control
- Engine start/stop and sequencing control
- Safety shutdown
- Engine and process temperature and pressure monitoring/protection
- Vibration protection

The Altronic/Altronic Controls OPTIMIZER system can be customized to meet your specific application or operational requirements. Contact your local Altronic/Altronic Controls Distributor or Dealer for further details.

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