



Turbotronic 4 Controls System

Renewal of the control system is the gateway to Solar gas turbine package modernization and life extension; providing reliable, efficient, and durable operation, along with world class safety.

For existing Solar® gas turbine installations, upgrading to the *Turbotronic™ 4* control system opens the gateway to the latest controls technology and a broad range of package renewal products.

The *Turbotronic 4* control system utilizes ControlLogix processor and I/O technology for more precise and reliable operation in the most demanding applications, with on-board diagnostics to help extend gas turbine life and reduce the risk of damage to your equipment.

From a Single Source

When it comes to controlling Solar gas turbines, no one does it better than the company that designs, builds, tests and installs them. Our proprietary knowledge and expertise combine to create the most reliable, efficient gas turbine control units available. You can trust the Solar brand, because we'll be there with technical support for current and future system solutions.

Benefits

- Remote display and control via network connection
- Customizable station control capability for expandability
- Stop-action playback of historical databases for trending and diagnostics
- Integrated anti-surge for driven equipment protection
- Enhanced communications capabilities to optimize productivity and diagnostics
- Integration with Solar's *InSight System™* for remote monitoring and diagnostics (RM&D)
- Field support, global and local to reduce downtime
- Balance of Plant (BOP) integration
- Integrated fire, gas, and vibration systems for improved levels of safety
- Enables emissions reducing *SoLoNOx™* technology

Certifications

NEC, CSA, and ATEX

Primary Goals

●	Safety Enhancement
●	Operational Efficiency
●	Emissions Control
●	Machinery Efficiency
●	Life Extension
●	Optimize Productivity
●	Reliability Enhancement
●	Installation Efficiency

Worldwide Turbomachinery Support

The Complete Solution

By developing a streamlined, integrated pre-engineered program, Solar has significantly shortened the delivery time of control system renewal solutions to meet quick turnaround requirements. These solutions also offer reduced downtime, minimized project risk, and competitive pricing based on selections from a list of standardized options and a comprehensive approach that includes installation, interconnect wiring and documentation.

At Solar, we understand that a control renewal solution involves much more than just a control console. Our control system solution includes:

- Choice of *Turbotronic* console, either on-skid or off-skid NEMA 4X (suitable for Division 2 locations) or non-classified one-bay or two-bay console locations
- Choice of options to reduce delivery time
- New interconnect wiring harness
- Factory installation services
- Package rewiring with labeled wires for better troubleshooting
- Complete package electrical drawings
- Operator's guide and parts list on CD-ROM

Quality Installation, Minimal Downtime

The NEMA 4X console is designed to be mounted either on- or off-skid, thus providing you with the flexibility of on-skid, PLC-based controls.

Solar recognizes that short downtimes are critical for our customers. Installation is included in the program, and carried out by a specialized crew dedicated to the installation of pre-engineered controls to reduce downtime dramatically.

Upgrade Solutions for Every Application

We can update your *Solar* turbomachinery with the latest software, display unit, performance display, or other systems quickly and cost effectively, whether you are upgrading your entire turbomachinery package or just want to renew your control system.

Additional Information

For more information about Solar's quality pre-engineered controls system, contact Solar's Field Office nearest you or go to www.solarturbines.com



On-skid controls



Off-skid one-bay console



Off-skid two-bay console