



**GTC**<sup>TM</sup>  
KEEP THE CONTROL



YOUR  
ULTIMATE  
RESOURCE  
FOR **POWER,**  
**WIND &**  
**INDUSTRIAL**  
**CONTROLS**  
**SOLUTIONS**

# About Us

GTC is expanding into GE Wind and GE Industrial, from our already established products of GE Turbine Control, Woodward, and Bently Nevada to Siemens, Rolls Entronic, Honeywell and Fanuc.

We have increased our global reach by adding more local sales offices.

As part of our continued growth, GTC has acquired a stake in Industrial Control Care (ICC), which will increase our global support of industrial controls beyond GE Turbine Control and Excitation systems.

GTC's expanded portfolio will bring tremendous value to users and operators who are facing daunting budgetary hardships in today's economic environment, making the job for the I&C divisions ever more challenging. Now GTC can help plants by offering cost-efficient repairs and replacement parts for a wide range of systems.

# Keep Your Facility Running

## LARGEST INVENTORY OF CIRCUIT BOARDS & COMPONENTS WORLDWIDE

GTC, your premier technology supplier of replacement parts, offers you access to the world's largest inventory of circuit boards and other components, as well as an expansive testing and repair facility. Our expertise keeps your operations running smoothly and resilient.



# Unmatched Inventory of Spare Parts

## GE SPEEDTRONIC

- Mark I-II
- Mark III
- Mark IV
- Mark V
- Mark VI
- Mark VIe
- DGP (Digital Generator Protection)

## WOODWARD

- Microprocessor-based 505 & 505E
- VME-based Micronet Plus
- Netcon 5000

## ROLLS ENTRONIC

- FT-50
- FT-100 / FT-110

## GE EXCITATION/ LCI

- EX2000
- EX2100
- EX2100e
- Alterrex™
- Generrex™
- SCT-PPT
- Brushless
- LS2100
- LS2100e

## ABB

- Procontrol™ P13 / P14 / Turbotrol® / Eagytrol
- Bailey Net 90 / Infi 90
- Brown Boveri PC200 / Decontic

## WESTINGHOUSE

- WEStation / WDPF

## SIEMENS

- SIMATIC S5/ S7

## EMERSON

- Ovation

## FANUC

## HONEYWELL

- TDC 2000 / 3000

## TRICONEX

## ALSTOM

- ALSPA P320
- Controcad / Controbloc / TGC

## BENTLY NEVADA

- 3300 / 3500

## REPORT & WARRANTY

All our cards are shipped with a report and 24-month warranty certificate.

## CARDS TESTED BEFORE DELIVERY

Our In-House Testing and Repair facility features energized Mark II, Mark IV, Mark V, Mark VLM, Mark VI, Mark VIe, EX2000, and EX21000 panels to final acceptance test of each card before shipment.

## COST-EFFECTIVE, READY-TO-GO REPLACEMENT PARTS

Our remanufactured, ready to go components save you time and money, and can provide unrivaled warranty term under our Warranty XXL program – which offers 4 years' warranty on select parts.

## EXTEND THE LIFE OF YOUR SYSTEMS WITH GTC'S REMAN™ PROCESS

We developed the Reman™ process. This proactive replacement of known-to-fail components improves the life expectancy of your cards beyond the OEM's design.

GTC's Reman™ cards mitigate the risk of service failures. Our confidence in the Reman process is evident in the warranty we provide, which matches our new/unused warranty.



## INDUSTRIES OF EXPERTISE

- |                  |                         |
|------------------|-------------------------|
| Power Generation | Hydro                   |
| Petrochemicals   | Steel Plants            |
| Oil & Gas        | Cement Plants           |
| Wind             | Other Processing Plants |

## 24/7 CUSTOMER SUPPORT

Our experts are available 24/7, 365 days a year to answer urgent questions that will help you start, synchronize, load or troubleshoot your panel without having to wait a day or two for a field engineer.

We offer expedited delivery of parts in case of forced outage or emergency.

## EMERGENCY HOTLINE

US and Canada: +1 844-GTC-FAST (+1 844-482-3278)  
International Callers: +1 914-693-0786

## Spare Parts & Maintenance Agreements

### ARE YOU FINDING SUPPORT FOR YOUR CONTROLS SYSTEM CHALLENGING TO MAINTAIN?

Due to lack of parts in the marketplace, support for your controls is often hard to find. GTC offers clients a maintenance contract to support systems for any length of period the client requires. We evaluate client's controls and follow-up with a tailored agreement assuring clients that they can keep operating with their current controls system.

This cost-effective solution can save operators substantial funds which otherwise would have been used to upgrade systems. This upgrade will not necessarily give any further output or efficiency to the production of equipment it controls.

### EXPERT FIELD SERVICE ENGINEERS

Our controls engineers are available to assist users on-site, worldwide. Whatever you need or whichever problem may be concerning your turbine control or excitation system, we are ready to provide comprehensive solutions for your Frame and LM turbines.

With OEM-alternative software solutions, operator interface retrofits, control system improvement options and more, our team of highly experienced engineers will come out to your site to fully examine your system and provide a comprehensive solution for your Frame and LM turbines.

### COMPREHENSIVE SERVICE INCLUDE:

- |                             |                             |
|-----------------------------|-----------------------------|
| Outage Support              | TIL Review & Implementation |
| Commissioning               | Troubleshooting             |
| Consultancy                 | Software Updates            |
| Health Checks               | Preventative Maintenance    |
| HMI Replacements & Upgrades |                             |

## Certified For Quality

We provide a reliable alternative solution to operators, offering you valid, consistently dependable options to escape the pressures to upgrade. Our goal is for you to "Keep the Control" for many years, even decades, beyond the end of OEM support.

The ISO 9001-2015 continued certification embodies our commitment to quality and customer service.



## Professional Training

### LEARN FROM A COMPANY WITH OVER 18+ YEARS' EXPERIENCE

Give your operators and technicians the tools they need to keep your plant running smoothly with our educational courses and seminars. We offer standardized or customized courses and seminars held periodically throughout the year, either at your plant or at our New York training facility.

#### TRAINING COURSES INCLUDE:

Mark II Operators and/or Maintenance	Mark VIe Operators and/or Maintenance
Mark IV Operators and/or Maintenance	EX2000 / EX2100 / EX2100e / LCI
Mark V Operators and/or Maintenance	On-The-Job Training is also available
Mark VI Operators and/or Maintenance	

GTC provides simulators and fully energized panels to provide hands on training for the entire family of GE Speedtronic & Excitation turbine control systems.

Mark II	Mark VI
Mark IV	Mark VIe
Mark V	Excitation / LCI

All courses are tailored to meet your requirements and include in-depth electronic training manuals for each course.

Our training offers maximum effectiveness to students, who are given real-world lab sessions using energized panels.

Spanish courses are available.

## Planning To Upgrade Your System?

### OUR RECOVERY ASSET TEAM WANTS TO ACQUIRE YOUR CONTROLS

If you're thinking about upgrading your current controls – or already have – our team can provide a custom appraisal for displaced equipment. Since 2001, we have worked with plant operators to maximize the value of their surplus controls' equipment.

#### HOW IT WORKS

In order to assist the evaluation of your surplus system(s), use the below checklist:

1. List all installed hardware in the panel
2. List all spares in stock
3. List all damaged/failed hardware in stock
4. Take pictures where possible either installed or uninstalled
5. Offer a full description available
6. State when the parts will be available for purchase

Our field service engineers can assist with any removal/ decommissioning required.

Wherever possible, GTC also acquires capital turbine spares, such as transition pieces, buckets, nozzles, and combustion lines for GE Frame turbines.

#### SERVICE AGREEMENTS

As the OEM announces the end-of-life and termination of support for their "classic" turbine control and excitation systems, operators need alternative resources to maintain the reliability of their controls.

GTC offers different levels of customizable service agreements to cover your fleet of controls. Our service agreements include turbine controls, excitation systems, and vibration monitoring systems.



## What Kind Of Solutions Do We Provide?

1. An offshore rig required a Mark V Simplex panel, identical to an existing one. We built it in six weeks, with new and refurbished components.
2. A power plant had two unexplained releases of the CO2 fire protection system. We mobilized to site for troubleshooting and identified grounded detectors and six other ground faults within 48 hours.
3. An Oil & Gas customer running critical gas supply service was counting on an inventory of 150+ cards for Mark V LM, stored in perfectly good environmental conditions for about 15 years. We tested their cards, in batches, in our Mark V LM panel and found out that better than 50% did not pass the functional test. GTC tested and repaired all their inventory. (By the way... at GTC, every component is functionally tested before shipment in the corresponding panel, and the test results are logged in the Report included with the part).
4. A power plant with LM5000 units realized that they needed a sequence modification to carry out the "governor testing" required by the local grid administrator. We mobilized to site within 24 hours and implemented the changes to simulate a step-change in turbine speed which enabled the successful completion of the regulatory test.

SPARE PARTS / TRAINING / ASSET RECOVERY / FIELD SERVICE / TESTING & REPAIRS

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