GE DS200TCDAG1BFD DS215TCDAG1BZZ01A

Installation & Commissioning Guide

Interrogation-Power and Contact-to-Logic Fault Separation

Resolve common field-loop power loss before changing a contact-processing assembly.

Before You Order

Assembly record	Capture both board identities and programmable-device labels.
Core record	Identify the actual CD/QD core, terminals and logic points.
Source record	Retain internal or external interrogation voltage and grouping.

Installed interfaces and selection

Source	Approved interrogation circuit -> terminal-board contact group.
Acquisition	Field contact -> optically isolated TCDA input.
Interpretation	Correct core/input assignment -> intended control logic.

Engineering values in use

State versus reporting	Test hardware contact state, inversion into logic and change reporting as separate checkpoints.
Inversion interpretation	An inversion mask of 1 makes a hardware-open 0 appear as logic 1; compare the assigned point type before changing field wiring.
Event interpretation	A change-detect mask of 0 can suppress reporting for a toggling point without establishing an input hardware failure.
Configuration transfer	TCDA I/O constants associated with a control processor are transferred from its SDCC EEPROM to TCDA RAM on processor reset or power-up; preserve the accepted configuration before the approved reset.

Interrogation and isolation values describe the documented Mark V contact-input circuit through TCDA. Core-wide contact/relay counts are not treated as standalone board capacities. The supplied DS200/DS215 pair is retained as a complete offered identity; no undocumented EPROM content is inferred.

Model-specific work decisions

Record the common symptom	Identify whether one contact or an entire group is affected.
Check interrogation first	Trace source, fuse/current limiting and actual return.
Inspect the mapped input path	Compare terminal, core and contact identity.
Retain the application devices	Preserve the accepted programmable-device record during exchange.
Prove the intended logic	Use a controlled contact transition and retain its result.

Interpret the observed fault

Many contacts disappear together
Investigate common interrogation and grouping.

Local contact works, logic unchanged
Trace the optically isolated path and mapping.

Replacement recognized, behavior changed
Review application/EPROM identity and accepted logic assignment.

Acceptance evidence

Power proof	The actual interrogation circuit is restored.
Identity proof	Both board markings and application devices agree with the accepted record.
Logic proof	Controlled contact transitions reach their intended points.

Technical basis: GE SPEEDTRONIC Mark V Turbine Control Application Manual GEH-6195F.

Related GE product references

Separate supply references; these links do not establish interchangeability.

GE IS200TSVCH2AJE
Servo Control Terminal Board

GE IS200ECTBG2ADE
Exciter Contact Terminal Board

GE IS200EDCFG1AED
Exciter DC Feedback Board

GE IS200EISBH1AAB
Exciter ISBus Communication Board

GE IS200EPSMG1AED
Exciter Power Supply Module

GE DS200DTBCG1AAA
Contact Output Termination Module

GE DS200TBCAG1AAB
External I/O Terminal Board

GE DS200TBQBG1ACB
RST Analog Termination Board

GE DS200TBQCG1ABB
Analog Input Milliamp I/O Termination Module

GE DS200TCPSG1AME
Power Supply Board

Discuss DS200TCDAG1BFD DS215TCDAG1BZZ01A and its installed application with Apter Power.
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