GE DS200TCQBG1BCB DS215TCQBG1BZZ01A

Installation & Commissioning Guide

Sensor-Mode, Shaft-Assignment and Scaling Acceptance

Reconcile physical jumpers with channel purpose before comparing the returned vibration indication.

Before You Order

Mode inventory	Record first-three-channel proximity or accelerometer duty.
Shaft inventory	Capture HP/IP/LP associations and accepted speed-scaling basis.
Assembly inventory	Retain the complete DS200/DS215 pair and actual programmable devices.

Installed interfaces and selection

Sensor decision	Actual sensor/conditioning -> TCQB hardware jumper -> software device type.
Signal decision	Vibration, position or keyphasor duty -> correct scale and offset.
Shaft decision	HP/IP/LP assignment -> scaled-speed basis -> accepted processing configuration.

Engineering values in use

Sampling dependency	The selected shaft speed governs the vibration algorithm sampling basis; separate an incorrect shaft assignment from sensor sensitivity.
Unused input	Confirm the channel is not used before applying the documented zero-sensitivity diagnostic-disable setting.
Position interpretation	Treat LVDT/LVDR 0% and 100% endpoint voltages as calibrated application values, not universal screen examples.
Keyphasor interpretation	The notch leading edge supplies a phase reference. Its diagnostic treatment differs from the linear vibration/position duty; do not transfer one duty's limits to another.

Channel groups describe the documented TCQB configuration: proximity vibration, position and keyphasor roles with conditional accelerometer use on the first three channels. System/optional capacities do not establish an undocumented BCB hardware change or delivered EPROM content.

Model-specific work decisions

Freeze channel duties	Record the signal role before changing hardware.
Compare jumper and software mode	Resolve any disagreement before signal testing.
Restore shaft associations	Retain the approved HP/IP/LP relationships.
Review distinct engineering fields	Keep position offset separate from vibration scaling.
Prove the interpreted response	Compare diagnostics and controlled channel behavior.

Interpret the observed fault

Valid signal, implausible amplitude

Check sensor mode and sensitivity before blaming the field transducer.

Behavior changed after jumper work

Reconcile hardware with software device type.

Shaft-related interpretation is wrong

Review shaft assignment and scaled-speed basis.

Acceptance evidence

Mode proof	Actual sensor, jumpers and software agree.
Scale proof	Channel duty, shaft association and engineering fields are retained.
Response proof	Diagnostics and controlled response satisfy the accepted application.

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 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

GE DS3800NGDC1A1A
Ground Detector Module

Discuss DS200TCQBG1BCB DS215TCQBG1BZZ01A and its installed application with Apter Power.
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