GE IS200EPSMG1ADC

Installation & Commissioning Guide

Controller-Rail Isolation and Redundant Supply Recovery

Identify the served controller before separating distribution loss, conversion failure and a connected-load fault.

Before You Order

Supply assignment	Record M1, M2 or C and the complete ADC marking.
Incoming path	Capture the EPDM switch and source state for the affected path.
Acceptance record	Prepare the approved rail measurements and controller-start evidence.

Installed interfaces and selection

Source	Cabinet source -> EPDM -> identified EPSM input.
Conversion	EPSM -> logic and analog rails -> served controller.
External path	Dedicated output rails -> identified exciter auxiliary loads.

Engineering values in use

Input conversion	The nominal 125 V DC distribution source is not an independently interchangeable AC input.
Controller rails	+5 V, ±15 V and +24 V have separate loads and diagnostic meanings.
External rails	±24 V and isolated +70 V serve different exciter functions.

The stated conversion and rails are the documented EPSM excitation-control design. They do not establish an undocumented rail current limit or an interchangeability decision between ADC and AEC revisions.

Model-specific work decisions

Record the reset pattern	Distinguish common cabinet symptoms from one controller’s restart.
Trace the source path	Check the actual distribution assignment before removing a supply.
Inspect the mating interface	Compare retained connector alignment and contact condition.
Restore the identified rails	Use the approved test method and retain the served load identity.
Prove controller initialization	Compare diagnostics and the accepted redundant-system state.

Interpret the observed fault

Multiple controllers lose power

Investigate shared distribution before assuming simultaneous EPSM failures.

Only one controller resets

Trace its independent source and generated rails.

Source present, rail missing

Separate conversion, mating and connected-load faults.

Acceptance evidence

Assignment	The correct controller remains associated with the replaced supply.
Rail results	Required rails are measured under the approved conditions.
Controller proof	Initialization and the intended redundant state are accepted.

Technical basis: GE EX2100 Excitation Control User Guide GEH-6632G.

Related GE product references

Separate supply references; these links do not establish interchangeability.

GE DS200TBQCG1ABB
Analog Input Milliamp I/O Termination Module

GE DS200TCPSG1AME
Power Supply Board

GE DS3800NGDC1A1A
Ground Detector Module

GE DS3800NGDD1C1B
Field Ground Detector Card

GE IS400AEBMH1AJD
Alternative Energy Bridge Module

GE IS220PPROH1A
Emergency Turbine Protection I/O Pack

GE SF412024 517-0224-16A-504376 820-0297
Circuit Board Assembly

GE 46-288512G1-F
Gantry I/O Board

GE IS420YAICS1B
Functional Safety Analog Input/Output Pack

GE IS200EPSMG1AEC
Exciter Auxiliary and Control Power Supply Module

Discuss IS200EPSMG1ADC and its installed application with Apter Power.
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