GE IS200EXAMG1A

Exciter Attenuator Module

GE IS200EXAMG1A is the EX2100 attenuation module that couples the field-circuit sense resistor to EGDM or EROC ground-detection hardware using a controlled low-frequency test signal and returned measurement path.

01	02	03	04
Auxiliary-cabinet field-ground attenuation module	Sense resistor connected to the generator field network	Works with EGDM or EROC ground-detection hardware	Dedicated control and sense cable between detector and EXAM

System position

Generator or exciter field circuit	IS200EXAMG1A resistor and attenuation network	EGDM or EROC ground detector	EX2100 controller alarms and protection response

Evidence boundary

Only verified exact-model facts and explicitly identified family context are included. Similar codes are not treated as substitutes.

Model-specific release focus

- Auxiliary-cabinet field-ground attenuation module
- Sense resistor connected to the generator field network
- Works with EGDM or EROC ground-detection hardware
- Dedicated control and sense cable between detector and EXAM

02 / CAPABILITY MAP

Engineering domains and architecture

Control platform	GE EX2100 excitation control
Functional acronym	EXAM
Module role	Exciter attenuation and field-ground sensing
Installation area	Auxiliary cabinet / high-voltage interface area

Applied test signal	Low-frequency ±50 V square wave supplied by the ground detector
Sensing element	Sense resistor within a field-connected resistor network
Detector interface	Single control-and-sense cable to EGDM or EROC
Redundant operation	Detector-source selection controlled between M1 and M2 through controller C

Interface architecture

Field resistor network

Connects across the generator or exciter field circuit for leakage measurement

Test-signal path

Carries the low-frequency square wave from EGDM or EROC to the sense resistor

Measurement return

Returns resistor voltage to the detector for conditioning and conversion

Redundancy relay

Selects the active M1 or M2 detector source in redundant systems

Interface evidence for acceptance

- Field resistor network: Connects across the generator or exciter field circuit for leakage measurement
- Test-signal path: Carries the low-frequency square wave from EGDM or EROC to the sense resistor
- Measurement return: Returns resistor voltage to the detector for conditioning and conversion
- Redundancy relay: Selects the active M1 or M2 detector source in redundant systems

03 / INTEGRATION AND APPLICATIONS

Use cases with controlled scope

Generator field monitoring

Forms the field-side measurement path for insulation-to-ground supervision.

Exciter field monitoring

Supports a separate EXAM/EROC channel in Alterrex arrangements.

Redundant EX2100 control

Selects between M1 and M2 detector sources under controller-C command.

Ground-fault diagnostics

Provides the scaled differential signal used to evaluate field leakage resistance.

INTEGRATION CHECKPOINTS

Identity

GE IS200EXAMG1A is preserved in full.

Host system

Rack, slot and surrounding hardware are verified.

Configuration

Project, firmware and settings are recorded.

Acceptance

Functional evidence is captured before release.

System relationship

Generator or exciter field circuit	IS200EXAMG1A resistor and attenuation network	EGDM or EROC ground detector	EX2100 controller alarms and protection response

Configuration-control record

- Applied test signal: Low-frequency ±50 V square wave supplied by the ground detector
- Sensing element: Sense resistor within a field-connected resistor network
- Detector interface: Single control-and-sense cable to EGDM or EROC
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Decision matrix

Question	Answer
What is the function of GE IS200EXAMG1A?	It attenuates and senses the generator or exciter field network so the EX2100 ground detector can evaluate leakage resistance to ground.
Where is GE IS200EXAMG1A installed?	The EXAM module is mounted in the auxiliary cabinet, at the high-voltage field interface rather than in the controller rack.
Which EX2100 boards work with GE IS200EXAMG1A?	It operates with EGDM ground-detector modules or an EROC options board, depending on the control arrangement.
What signal is applied through GE IS200EXAMG1A?	The detector supplies a low-frequency ±50 V square wave to one end of the EXAM sense resistor.

Eight release precautions

1

Treat IS200EXAMG1A and its field resistor network as high-voltage equipment even when the controller cabinet is isolated.

2

Apply the site's approved generator-field discharge and absence-of-voltage test before touching the EXAM wiring.

3

Preserve the complete IS200EXAMG1A identity and do not substitute a different EXAM group without an engineered review.

4

Label the field, sense, control and detector connections before removing the module from the auxiliary cabinet.

5

Inspect the dedicated cable and its shield/ground arrangement before reconnecting EGDM or EROC.

6

In redundant systems, confirm the controller-C selection relay transfers the test source between M1 and M2 as designed.

7

Do not megger or inject an external test voltage through the EXAM circuit unless the approved EX2100 procedure permits it.

8

After work, perform the documented ground-detection functional test and verify alarms without leaving the field circuit energized unattended.

- Inspect the dedicated cable and its shield/ground arrangement before reconnecting EGDM or EROC.
- In redundant systems, confirm the controller-C selection relay transfers the test source between M1 and M2 as designed.
- Do not megger or inject an external test voltage through the EXAM circuit unless the approved EX2100 procedure permits it.
- After work, perform the documented ground-detection functional test and verify alarms without leaving the field circuit energized

Product verification and support

Apter Power verification record

Model identity	Keep the complete GE model code and every suffix in purchasing, installation and acceptance records.
Verification boundary	Confirm the physical nameplate, installed position and revision-controlled project documents before field work.
Apter Power support	Use the contact details and Apter Power website links in this document for product and sourcing support.

Related Apter Power references	Scope note
GE IS200TDBTH2ACD	Portfolio reference only; verify compatibility independently.
GE IS200TBCIH1BBC	Portfolio reference only; verify compatibility independently.
GE IS200STCIH2A	Portfolio reference only; verify compatibility independently.

Apter Power technical and sourcing support
sales13@apterpower.com +86 180 3023 5313 www.apterpower.com
Scan for the Apter Power contact page.

Model record GE IS200EXAMG1A Exciter Attenuator Module Verify the complete nameplate before installation.

Handover evidence to retain

- Exact identity retained: GE IS200EXAMG1A
- IS200EXAMG1A resistor and attenuation network
- EGDM or EROC ground detector
- Archive as-left checks and measured results before release.