GE GE □□□ Series Service Manual

IS200EMIOH1A

1. Description

SPECIFICATIONS

2. Specifications

Specification	Value
Board	**Type Exciter Main Input/Output**
Dimensions	**L: 9.25 Inches W: 6.5 Inches**
Function	**To Manage I/O from ECTB, EACF, EXTB, and EPCT Terminal Boards**
Function	**of LEDs Status and Power**
Quantity	**of LEDs 2, Located on front plate**
Weight	**Approximately 2 pounds**
About	**the IS200EMIOH1A**
The	**primary function of the Exciter Main Input/Out IS200EMIOH1A board is to manage all of the inputs/outputs from the ECTB, EACF, EXTB, and EPCT terminal boards. This board is a double-height-versa module Eurocard and is also single-slotted. Another primary function of the IS200EMIOH1A is to send gate pulse signals from the backplane to the ESEL board, after the signals have been received by the ESEL board the signals will then be sent to the EGPA board which is located in the power conversion cabinet.**

3. Product Information

SPECIFICATIONS

Part Number: IS200EMIOH1A

Manufacturer: General Electric

Series: EX2100

Product Type: Exciter Main I/O Board

Weight: 2lbs

Availability: In Stock

Instruction Manual: GEI-100453

Country of Origin: United States of America (USA)

IS200EMIOH1A is an Exciter Main I/O Board manufactured by General Electric under EX2100 Series. It is a single-slot, double-height VME style board that is installed in the control rack. The EPCT, ECTB, EACF, and EXTB terminal boards' I/O is handled by EMIO. PT and CT signals are included in the I/O. Contact inputs, output relay drivers, and pilot trip relay drives are all available. It also sends logic level gate pulse signals to the ESEL board, which sends them to EGPA in the power conversion cabinet via the backplane. EMIO manages inputs and outputs from a variety of I/O boards connected to the control rack.

Application Data

The Power LED is connected to the 5 V dc power supply, and the Status LED is connected to the FPGA's IMOK output. On the board, there are no jumpers, fuses, or cable connectors. All I/O board cabling is connected to the control backplane (EBKP). Connector P1 communicates with the other control boards via the backplane, while P2 interfaces with the I/O signals via cable connectors located on the lower part of EBKP.

IS200EMIOH1A Board Replacement (Offline)

Ensure that the exciter has been deactivated.

Open the control cabinet door and check any electrical circuits for power before touching them.

Remove the EMIO board from the control rack with care as follows:

Loosen the screws near the ejector tabs at the top and bottom of the faceplate. (The screws in the faceplate are captive and should not be removed.)

Remove the module by lifting the ejector tabs.

Gently pull it from the rack with both hands.

Insert the replacement EMIO board into the appropriate rack slot.

Begin seating the board by firmly pressing the top and bottom of the faceplate with your thumbs at the same time.

Tighten the screws at the top and bottom of the faceplate to finish seating the board in the slot. To ensure that the module is seated squarely, tighten the screws evenly.

IS200EMIOH1A Technical Specifications

Board Type Exciter Main Input/Output

Dimensions L: 9.25 Inches W: 6.5 Inches

Function To Manage I/O from ECTB, EACF, EXTB, and EPCT Terminal Boards

Function of LEDs Status and Power

Quantity of LEDs 2, Located on front plate

Weight Approximately 2 pounds

About the IS200EMIOH1A

The primary function of the Exciter Main Input/Out IS200EMIOH1A board is to manage all of the inputs/outputs from the ECTB, EACF, EXTB, and EPCT terminal boards. This board is a double-height-versa module Eurocard and is also single-slotted. Another primary function of the IS200EMIOH1A is to send gate pulse signals from the backplane to the ESEL board, after the signals have been received by the ESEL board the signals will then be sent to the EGPA board which is located in the power conversion cabinet.

When controlling the inputs and outputs of other terminal boards, the IS200EMIOH1A will control contact inputs, pilot trip relay drivers, PT and CT signals, and output relay drivers. As the EMIO board connects to the EXTB board the EMIO board will initiate de-excitation, which means that the EMIO board also controls the EDEX board that the EXTB is connected to.

When using the IS200EMIOH1A board the best manual to use is the GEI-100453 IS200EMIO Exciter Main I/O Board manual, but as that manual is difficult to find, the GEH-6632 EX2100 Excitation Control User’s Guide has information related to the EMIO board on page forty-eight.