GE GE □□□ Series Service Manual

DS200FGPAG1A

1. Description

DS200FGPAG1A Technical Specifications

2. Specifications

Specification	Value
Model	**Number DS200FGPAG1A**
Common	**Revisions DS200FGPAG1AMD, DS200FGPAG1AKD, DS200FGPAG1AHD, DS200FGPAG1AFC**
Series	**LS2100**
OEM	**/ Manufacturer GE Energy**
Part	**Specific Manual GEI-100223**
Number	**of Test Points 30, Nine for Gate A, Nine for Gate B, and 12 for Cell Status Monitors**
Twelve-Pulse	**Convertor Supply Voltage 2080 or 3300 VAC**
Compatibility	**Not Backwards Compatible**
Number	**of Gate Driver Circuits Two**
Quantity	**of Fiber-Optic Connectors 15, One Fiber-Optic Transmitter, and Fourteen Fiber-Optic Receivers**

3. Product Information

DS200FGPAG1A Technical Specifications

Model Number DS200FGPAG1A

Common Revisions DS200FGPAG1AMD, DS200FGPAG1AKD, DS200FGPAG1AHD, DS200FGPAG1AFC

Series LS2100

OEM / Manufacturer GE Energy

Part Specific Manual GEI-100223

Number of Test Points 30, Nine for Gate A, Nine for Gate B, and 12 for Cell Status Monitors

Twelve-Pulse Convertor Supply Voltage 2080 or 3300 VAC

Compatibility Not Backwards Compatible

Number of Gate Driver Circuits Two

Quantity of Fiber-Optic Connectors 15, One Fiber-Optic Transmitter, and Fourteen Fiber-Optic Receivers

About the DS200FGPAG1A

Gate Pulse Amplifier Board DS200FGPAG1A is from the LS2100 Series produced by General Electric Industrial Systems. This board has three primary yet basic functions to be used with the LCI (Load Commutated Inverter), these functions are SCR status monitoring, gate driver, and switching power supply. There are also three FGPA’s which are each for every three-phase silicon-controlled rectifier bridge. The power supply voltage on the DS200FGPAG1A should read at an input of 120 VRMs, and the approximate maximum voltage should read at 350 VA.

Specifications

Part No.: DS200FGPAG1A

Manufacturer: General Electric

Product Type: Gate Pulse Amplifier Board

Series: Mark V

Power is delivered to one phase of an SCR bridge on the GE Gate Pulse Amplifier Board DS200FGPAG1A, cell voltage data is gathered, and AC to DC control voltage is transformed. The DS200FGPAG1A board features one sending fiber optic port and 14 receiving fiber optic ports for an extremely fast and stable network.

Duplex fiber optic networks are served by two receiving ports, whereas simplex fiber optic networks are served by the remaining ports. Because electrical interference does not impact the messages, fiber optic networks are highly helpful in an industrial environment. As a result, fiber optic cables can be used in conjunction with 3-phase power cables or any other wire.

Fiber optic links can also extend further than copper wire networks. If repeaters are added to the networks, the runs can be even longer. The length can be doubled by using repeaters. A maximum of two repeaters can be added to the network. When designing fiber optic cable routes, make sure the bend radius does not exceed the specifications' recommended radius. They may have degraded the transmission or destroyed the cables if they were tighter. The signal power can be reduced or increased to configure the fiber-optic network. This is determined by the length of the fiber optic cable as well as other factors.

The board is subject to harm by static electricity. Keep the board in its protective container until you're ready to install it to reduce the risk.