GE Service Manual

IS200STAIH2ACB

1. Description

IS200STAIH2ACB Technical Specifications

2. Specifications

Specification	Value
Manufacturer	General Electric
Series	Mark VI IS200
Part	Number IS200STAIH2ACB
Shipping	Weight 4.19 lb
About	the IS200STAIH2ACB
Model	Name: IS200STAIH2ACB.
Manufacturer:	General Electric (GE).
Series:	Component within the Mark VI series.
Greater	Product Line: Part of the "Mark lineup" by GE.
Application:	Mark systems are used to manage and automate functions of industrial gas and steam turbines.
Type:	DINrail board (Printed Circuit Board/PCB).
Hardware	Components and Features
Form	Factor: Small printed circuit card/board (PCB).
Terminal	Block:
One	(1) large, solid green terminal block along the bottom edge.
May	feature at least twenty-four (24) small, silver, cube-shaped metal terminals.
Diodes:	A long line of rectangular, black diodes positioned directly above the terminal block.
Each	diode is identified with the initial "D."
Potentiometers	(Variable Resistors):
Fourteen	(14) black potentiometers in total.
Ten	(10) arranged in a horizontal line across the center of the PCB.
Four	(4) gr

3. Product Information

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Diodes: A long line of rectangular, black diodes positioned directly above the terminal block.

Each diode is identified with the initial "D."

Potentiometers (Variable Resistors):

Fourteen (14) black potentiometers in total.

Ten (10) arranged in a horizontal line across the center of the PCB.

Four (4) grouped into a vertical line at the top right corner of the PCB.

Jumper Port: One (1) black and white component with metal pins located next to the group of four potentiometers.

Integrated Circuit (IC): At least one (1) integrated circuit (device with a self-contained network of components) attached to the top of the IS200STAIH2ACB.

Connector Port: One (1) long connector port featured parallel to the upper border of the IS200STAIH2ACB.

* **Part No.:** IS200STAIH2ACB

* **Manufacturer:** General Electric

* **Country of Manufacture:** United States of America (USA)

* **Size:** 15.9 cm high x 10.2 cm wide

* **Temperature:** -30 to +65oC

* **Technology:** Surface mount

* **Product Type:** compact analog input terminal board

* **Availability:** In Stock

* **Series:** Mark VIe

Functional Description

IS200STAIH2ACB Is a compact analog Input terminal board developed by GE. It is a part of Mark VIe control system. The STAI board serves as a compact analog input terminal board within the system architecture. Its compact design, coupled with the on-board ID chip, enhances system reliability and diagnostic capabilities, ensuring smooth operation and simplified maintenance.

Features

* **Analog Inputs and Outputs:** The board accommodates 10 analog inputs and two analog outputs. These inputs can handle various types of transmitters, including two-wire, three-wire, four-wire, or externally powered transmitters.

* **Output Configuration:** The two analog outputs are typically set to a range of 0-20 mA. However, one of the outputs can be jumper configured to support a wider range of 0-200 mA current output.

* **Simplex Configuration:** The board is available only in a simplex version, meaning it operates independently without redundant counterparts. While redundancy is not provided at the board level, overall system redundancy may be achieved through other means.

* **Terminal Blocks:** The board features high-density Euro-block type terminal blocks for secure and reliable connections. These terminal blocks ensure easy and efficient wiring of analog inputs and outputs.

* **On-board ID Chip:** An on-board identification (ID) chip is integrated into the STAI board. This chip plays a crucial role in system diagnostics by identifying the board to the Programmable Analog Input Controller (PAIC). It provides essential information such as the board's serial number, type, revision number, and connector location, facilitating effective troubleshooting and maintenance.

Configuration (image_a247be.png)

* **Jumper Selection:** The configuration of the terminal board involves setting jumpers in specific positions. These jumpers are designated by labels such as J1A through J8A, J1B through J8B, J9A, J10A, J9B, J10B, and J0.

* **Current or Voltage Input Selection:** Jumpers J1A through J8A determine whether the input signals are configured for current input or voltage input. The appropriate jumper setting should be selected based on the type of input signals being used.

* **Return Connection Selection:** Jumpers J1B through J8B provide options for connecting the return path of the input signals. Users can choose to connect the return to the common terminal or leave it open, depending on the system requirements.

* **Input Current Selection:** Jumpers J9A and J10A allow users to select the input current level, offering options between 1 mA and 20 mA. This selection should align with the specific requirements of the application.
* **Return Connection for Input Current:** Similar to J1B through J8B, jumpers J9B and J10B offer choices for connecting the return path of the input current signals. Users can opt to connect it to the common terminal or leave it open as needed.
* **Output Configuration:** Jumper J0 is dedicated to configuring the output of the terminal board. It sets output 1 to either 20 mA or 200 mA, depending on the desired output current level for the application.