GE Service Manual

IS200STAIH2A

1. Description

Specifications

3. Product Information

Specifications

* **Part Number:** IS200STAIH2A
* **Manufacturer:** General Electric
* **Series:** Mark VIe
* **Product Type:** Simplex Analog Input Terminal Board
* **Number of Channels:** 12
* **Maximum Lead Resistance:** 15 Ω
* **Outputs:** 24 V DC
* **Size:** 15.9 cm high x 10.2 cm wide
* **Operating Temperature:** -30 to +65 °C
* **Technology:** Surface mount
* **Repair Time:** 3-7 Days
* **Country of Origin:** USA
* **Availability:** In Stock
* **Manual:** GEH-6721L

Functional Description

The IS200STAIH2A is a Simplex Analog Input (STAI) terminal board designed for Mark VIe distributed control systems. It is a compact board that attaches to the pack, supporting 10 analog inputs and 2 analog outputs. It is compatible with two-wire, three-wire, four-wire, or externally powered transmitters. The board offers jumper-configurable analog outputs (two 0-20 mA outputs, with one supporting 0-200 mA). It is available only in simplex form and includes an onboard ID chip for system diagnostics.

Installation

The board can be mounted on a DIN rail using a sheet metal carrier and a plastic insulator, or fastened directly to a cabinet via a sheet metal assembly.

* **Terminal Blocks:** There are two varieties:
* **STAI 1:** Features a permanently mounted 48-terminal block.
* **STAI 2:** Features a right-angled header that accepts various pluggable terminal blocks (total 48 terminals).
* **Wiring:** Typically uses #18 AWG shielded twisted pair wires, with an I/O cable shield terminal provided next to the blocks.

Supported Input and Output Types

* Two-wire, three-wire, and four-wire transmitters with analog input.
* Externally powered transmitters with analog input.
* 5 V and 10 V DC analog inputs.
* 0-20 mA analog output.
* 0-200 mA analog output.

Operation and Diagnostics

* **Power:** Transducers have access to 24 V DC power on the terminal board.
* **Flexibility:** Jumpers allow for selection between current or voltage inputs. One analog output circuit can be adjusted for 4-20 mA or 0-200 mA. Note that due to the single cable connection, it cannot be used for TMR applications.
* **Diagnostics:** An ID device (read-only chip) encodes the serial number, board type, revision, and connector location. The I/O processor generates a hardware incompatibility fault if a mismatch is detected. Additionally, the I/O processor monitors output current via a series resistor; if an output becomes unhealthy, a diagnostic alarm is generated.

Configuration

Jumpers are used to configure the board settings:

* **J1A–J8A:** Select current or voltage input.
* **J1B–J8B:** Determine if the return is linked to common or left open.
* **J9A and J10A:** Choose input current between 1 mA and 20 mA.
* **J9B and J10B:** Determine if the return is linked to common or left open.
* **J0:** Adjusts Output 1 between 20 mA and 200 mA.