GE IS220STAIH2A

Complete Product Information

GE IS220STAIH2A is a analog input terminal board for GE Mark VIe analog-input system.

01 Signal-path identity and channel data

Board function	Analog input termination
Assembly relationship	IS230SNAIH2A
Companion I/O pack	PAICH1B
Control family	Mark VIe / EX2100e
Signal role	Field analog input routing
Application arrangement	Simplex assembly
Replacement basis	Terminal map and connector identity

02 Functional role and system position

IS220STAIH2A is the field-termination element associated with a PAICH1B analog I/O pack in the IS230SNAIH2A Mark VIe module. It routes installed analog loops to the companion pack.

The terminal board preserves channel termination, common references and field wiring, while the pack performs acquisition and network communication. These two hardware roles should not be conflated during selection.

Record terminal numbering, loop type, polarity, shielding and connector orientation before removal. Recommission with controlled signal injection and compare controller readings against the approved channel baseline.

03 Engineering highlights

Separated hardware roles

Field termination remains on the board while acquisition and communications remain with the companion pack.

Analog-loop traceability

Terminal numbering, loop type, polarity and shielding are preserved for every configured channel.

Calibrated verification

Controlled signal injection confirms the restored controller reading against an accepted instrument.

04 Evidence and applicability boundary

STAIH2A is the analog-input terminal-board element paired with PAICH1B in the IS230SNAIH2A module; pack-level conversion and network functions remain with PAICH1B.

05 Field-loop integration map

Installed-system service

Maintain the exact IS220STAIH2A identity when replacing the fitted analog input terminal board.

Configuration retention

Preserve application records, channel maps or hardware settings that belong to the installed system.

Controlled troubleshooting

Use the approved system diagnostics to separate module, wiring and companion-hardware faults.

Acceptance testing

Return the system to service only after representative functions match the recorded baseline.

06 Installation and protection controls

Confirm the full marking

Match IS220STAIH2A and every visible revision or assembly identifier.

Preserve the as-found map

Record connectors, terminals, orientation and companion hardware before removal.

Apply the approved isolation

Use the complete system maintenance procedure and prove the required isolation.

Protect the hardware

Use ESD control and prevent mechanical load on connectors or board surfaces.

Restore configuration deliberately

Reapply only the approved installed settings, wiring and application records.

Retain acceptance evidence

Keep label photographs, test results, deviations and responsible sign-off.

07 Technical notes

Installation relationship	IS220STAIH2A belongs to the configured GE Mark VIe analog-input system hardware chain; the complete installed relationship governs replacement.
Protection	Follow the approved isolation, ESD and system-specific commissioning procedure before handling IS220STAIH2A.
Technical reference	GEH-6781L EX2100e I/O module relationship and exact-model industrial records. STAIH2A is the analog-input terminal-board element paired with PAICH1B in the IS230SNAIH2A module; pack-level conversion and network functions remain with PAICH1B.

08 Installed-system decision points

How should the PAICH1B relationship be confirmed for IS220STAIH2A?	Verify the companion PAICH1B I/O pack and the IS230SNAIH2A assembly relationship from the installed marking and drawing. Record pack, terminal-board and connector identities together.
What signal information must be captured before replacing IS220STAIH2A?	Record each terminal number, channel assignment, signal type, loop-power arrangement, polarity and field-device tag. Do not infer a common analog input configuration for all connected points.
How should shields and returns be restored on IS220STAIH2A?	Follow the approved loop drawing for shield termination, signal return and protective earth. Avoid creating a second ground path when the board or field wiring is reconnected.

09 Channel commissioning and acceptance matrix

Channel identity	Reconcile physical terminals, logical channels and field-device tags before energization. Exact model: IS220STAIH2A.
Electrical path	Confirm signal direction, polarity, loop power, return and shield treatment from the loop drawing. Exact model: IS220STAIH2A.
Controlled test	Inject or command one documented channel at a time and compare measured and controller values. Exact model: IS220STAIH2A.
Final proof	Retain channel-by-channel results and the stable diagnostic state. Exact model: IS220STAIH2A.

10 Published technical data - continuation

Documented platform	GE Mark VIe analog-input system
Exact-model boundary	Use the complete marking and every visible revision or assembly identifier.
System-data boundary	STAIH2A is the analog-input terminal-board element paired with PAICH1B in the IS230SNAIH2A module; pack-level conversion and network functions remain with PAICH1B.

11 Product-specific engineering FAQ

How should the PAICH1B relationship be confirmed for IS220STAIH2A?

Verify the companion PAICH1B I/O pack and the IS230SNAIH2A assembly relationship from the installed marking and drawing. Record pack, terminal-board and connector identities together.

What signal information must be captured before replacing IS220STAIH2A?

Record each terminal number, channel assignment, signal type, loop-power arrangement, polarity and field-device tag. Do not infer a common analog input configuration for all connected points.

How should shields and returns be restored on IS220STAIH2A?

Follow the approved loop drawing for shield termination, signal return and protective earth. Avoid creating a second ground path when the board or field wiring is reconnected.

Why is terminal numbering critical when servicing IS220STAIH2A?

The terminal board is the physical mapping between field conductors and controller channels. Photograph numbering and conductor tags so the same field loop returns to the same logical input.

What simplex boundary applies to IS220STAIH2A?

Treat the installed IS220STAIH2A path as the documented simplex terminal arrangement. Redundant behavior or alternative terminal hardware must be proven by the project design rather than assumed from the Mark VIe family.

How can a field-loop problem be separated from an IS220STAIH2A fault?

Check field-device output, loop power, terminal continuity, PAICH1B diagnostics and controller indication in sequence. Use a calibrated source at the approved point to locate the break in the measurement path.

How should IS220STAIH2A channels be calibrated or verified?

Inject controlled values appropriate to each documented signal type, compare the controller reading and record error at the selected test points. Do not apply one test range to channels configured for different inputs.

What acceptance evidence is required for IS220STAIH2A?

Retain the terminal map, companion-pack identity, loop-power and shield checks, injected values, controller readings and final channel diagnostics for every used input.

12 Lifecycle and supply boundary

The current manufacturing and manufacturer-support phase of IS220STAIH2A is unconfirmed. Preserve its exact installed identity when planning service.

Offered reference	GE IS220STAIH2A

Included items	the IS220STAIH2A analog input terminal board; companion hardware and accessories only when itemized in the quotation
Identity check	Compare the complete marking, revision and connections with available unit photographs and the installed record.

13 Commissioning handover record

Channel and field-device map	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.
Loop electrical checks	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.
Injected or commanded values	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.
Controller and field response	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.

14 Enquiry workflow

Review your reference	Send the complete IS220STAIH2A marking, installed-position photographs and required quantity.
Confirm the offer	Confirm the offered revision, condition, included items and documented system fit in the quotation.
Arrange dispatch	Agree quantity, dispatch date and delivery details in the quotation.

15 Related product references

Recommended model	GE IS220PSVOH1B
Recommended model	GE IS200STTCH2A
Recommended model	GE IS230SNAOH2A
Recommended model	GE IS220STAOH2A
Recommended model	GE IS220PTCCH2B

Confirm the complete IS220STAIH2A marking, installed relationship and required quantity with Apter Power.

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