GE IS200STTCH2A

Complete Product Information

GE IS200STTCH2A is a Mark VIe thermocouple terminal board used with a specified input pack. It provides field termination for thermocouple measurement channels in the approved assembly.

01 Thermocouple acquisition identity

Function	Thermocouple field termination
Published I/O-pack pairing	IS220PTCCH1B
Pack input, paired assembly	28 V DC; 0.16 A maximum
Thermocouple signal, paired assembly	−8 to +45 mV DC
Field output voltage Uo	0.5 V DC
Field output current Io	25 nA
Field output power Po	13 nW
External capacitance Co	1000 µF

02 Functional role and system position

GE Vernova identifies IS200STTCH2A as a terminal-board option for the Mark VIe thermocouple input pack. The published assembly uses a 28 V DC, 0.16 A maximum pack input; that value belongs to the I/O pack, not to the passive terminal board by itself.

The published thermocouple signal range is −8 to +45 mV DC for the specified pack-and-board assembly. It must not be read as a universal temperature range because thermocouple type, compensation and configuration determine the engineering units.

The certified terminal-board field interface has very low energy output limits. Retain the approved field-wiring design, sensor polarity and channel mapping; recheck the complete measurement chain after changing the board.

03 Engineering highlights

Signal role

The board terminates thermocouple field circuits for the matched input pack.

Measurement integrity

Sensor type, polarity and channel assignment govern the reading.

Selection boundary

Confirm complete board and I/O-pack suffixes before exchange.

04 Evidence and applicability boundary

The listed input and field-wiring values apply to the specified thermocouple pack-and-terminal-board assembly; pack supply is not a standalone board supply rating.

05 Sensor and cold-junction path

Turbine temperature inputs

Preserve sensor type, wiring route and channel assignment in the approved temperature-monitoring system.

Pack-and-board service

Identify both the terminal board and connected thermocouple input pack before exchange.

Field-loop verification

Compare millivolt readings with the accepted baseline under a controlled calibration procedure.

Hazardous-area installation

Apply the exact certified assembly and site wiring drawing; do not assume a board can be substituted alone.

06 Installation and protection controls

Isolate the measurement circuit

Follow the approved maintenance state before lifting thermocouple conductors.

Record sensor polarity

Photograph positive and negative conductor positions and channel markers.

Preserve sensor type

Do not change thermocouple type or compensation settings during a board swap.

Protect low-level signals

Maintain the approved shielding, routing and separation from power wiring.

Check companion pack

Confirm the fitted pack suffix and approved terminal-board combination.

Prove every changed channel

Compare reading and diagnostics with a known source or accepted machine baseline.

07 Technical notes

Signal boundary	The mV range describes the GE listed thermocouple input assembly.
Power boundary	The 28 V DC pack input is not a board-only supply specification.
Field energy	Published low-energy output parameters apply to the certified terminal-board circuit.
Configuration	Sensor type, polarity and channel mapping must match the installed project records.

08 Installed-system decision points

Why must the I/O-pack suffix be checked with IS200STTCH2A?	The published ratings describe an assembled input channel. Compare the board and pack markings with the approved system drawing before ordering.
How should thermocouple polarity be preserved when replacing IS200STTCH2A?	Photograph the positive and negative field conductors and channel labels before disconnection, then compare the restored reading with the accepted baseline.
Does the millivolt range of IS200STTCH2A specify a temperature range?	No. The listed −8 to +45 mV is an electrical input range for the paired system; the temperature scale also depends on sensor type and configuration.

09 Temperature-channel verification matrix

Sensor identity	Confirm thermocouple type, polarity and extension-wire relationship for every used channel. Exact model: IS200STTCH2A.
Reference path	Verify terminal-board and cold-junction relationships before assessing measurement accuracy. Exact model: IS200STTCH2A.
Controlled injection	Apply calibrated thermocouple or millivolt values one channel at a time. Exact model: IS200STTCH2A.
Temperature acceptance	Record injected values, displayed readings, error and final diagnostics. Exact model: IS200STTCH2A.

10 Published technical data - continuation

External inductance Lo	100 mH
Certified ambient, paired assembly	−30 to +65 °C
Documented platform	GE Mark VIe thermocouple input system

11 Product-specific engineering FAQ

Why must the I/O-pack suffix be checked with IS200STTCH2A?

The published ratings describe an assembled input channel. Compare the board and pack markings with the approved system drawing before ordering.

How should thermocouple polarity be preserved when replacing IS200STTCH2A?

Photograph the positive and negative field conductors and channel labels before disconnection, then compare the restored reading with the accepted baseline.

Does the millivolt range of IS200STTCH2A specify a temperature range?

No. The listed −8 to +45 mV is an electrical input range for the paired system; the temperature scale also depends on sensor type and configuration.

Can the 28 V DC figure be applied to IS200STTCH2A alone?

No. The 28 V DC, 0.16 A maximum rating is assigned to the companion input pack in the published assembly.

What field-energy limits should be checked for IS200STTCH2A?

Compare the published Uo, Io, Po, Co and Lo values with the approved field circuit and its complete certification documentation.

How can a channel mismatch after installing IS200STTCH2A be isolated?

Check conductor polarity, channel mapping, sensor type and pack diagnostics before attributing the mismatch to the board.

What shielding check is useful for IS200STTCH2A thermocouple wiring?

Restore the approved shield termination and separation from high-energy wiring, then compare noise and stable readings against the prior baseline.

What acceptance record should follow an IS200STTCH2A exchange?

Retain label and wiring photographs, input-pack identity, changed-channel readings, diagnostics and responsible sign-off.

12 Lifecycle and supply boundary

The production and manufacturer-support phase of IS200STTCH2A is unconfirmed. Compare the installed board, input pack and channel configuration before planning replacement.

Offered reference	GE IS200STTCH2A
Included items	IS200STTCH2A terminal board; the input pack, sensors, wiring and other accessories
Identity check	Compare the complete marking, revision and connections with available unit photographs and the installed record.

13 Commissioning handover record

Sensor-type and polarity map	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.
Cold-junction verification	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.
Injected reference values	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.
Observed temperature results	Retain with the complete model marking, installed asset reference and responsible acceptance sign-off.

14 Enquiry workflow

Review your reference	Send the complete IS200STTCH2A marking, installed I/O-pack suffix, channel drawing and required quantity.
Confirm the offer	Confirm revision, condition, included items and thermocouple-channel requirements in the written quotation.
Arrange dispatch	Agree quantity, dispatch date and delivery details in the quotation.

15 Related product references

Recommended model	GE IS220PSVOH1B
Recommended model	GE IS230SNAOH2A
Recommended model	GE IS220STAOH2A
Recommended model	GE IS220PTCCH2B
Recommended model	GE IS220STAIH2A

Confirm the complete IS200STTCH2A marking, installed relationship and required quantity with Apter Power.

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