General Electric IS200TRTDH1CC

Complete Product Information

Product role

This simplex Mark VI terminal board lands three-wire RTD circuits for a VRTD processor. Its H1C arrangement has two processor connectors, distinguishing it from the six-connector redundant H1B terminal arrangement and later Mark VIe RTD terminations.

Published product summary

Summary field	Published information
Product type	Resistance Temperature Detector Terminal Board
Manufacturer part number	IS200TRTDH1CC
Shipping	Swift global dispatch
Condition	New, original product
Shipping size (est.)	33cm x 10cm x 5cm
Country of Origin	USA

Native product information

Product field	Published information
Manufacturer	General Electric
Product Category	Gas Turbine Control
Spare Part Number	IS200TRTDH1CC

Native product information - continued

Product field	Published information
Weight	0.5 kg
Tariff Code	8537101190

Overview

General Electric IS200TRTDH1CC retains the three-conductor sensor circuit through a simplex RTD termination, where shield routing and lead allocation directly affect temperature measurement.

Terminal architecture	H1C is the simplex two-connector TRTD arrangement.
Field construction	Two 24-position blocks terminate sixteen three-wire circuits.
Hardware settings	The TRTD board has no configuration jumpers.

Selection and adjacent choices

The H1C termination of IS200TRTDH1CC is distinct from the six-connector H1B TMR arrangement. Later H1D/H2D terminal variants belong to the PRTD processing platform. Preserve the installed VRTD relationship and cable topology when selecting the terminal board; the common TRTD prefix does not establish equivalence.

Operating relationship

Each sensor circuit carries its three wires to the terminal block so the VRTD measurement can compensate lead resistance. The two removable blocks each provide 24 positions, and their adjacent shield strips bond to the chassis. Keep lead identification with the sensor rather than inferring conductor function from a displayed temperature.

Integration implications

RTD conversion is configured in the processor; there are no TRTD jumpers to select a sensor curve. Grounded and ungrounded detectors are accommodated by the documented input method. Cable distance and two-way lead resistance are simultaneous constraints, so a cable shorter than the distance limit can still be unsuitable if its conductor resistance is excessive.

Technical parameters

Parameter	Value / condition
Field terminal positions	48
Terminal blocks	2
Positions per block	24
Processor connectors	2 x DC-37
RTD connection	3 wire
Supported VRTD RTD inputs	16
Maximum lead distance, stated conditions	300 m
Maximum two-way lead resistance	15 ohm
VRTD excitation	10 mA DC, pulsed
Maximum terminal conductor	12 AWG
Terminal-block retaining screws	2 per block
Hardware configuration jumpers	0

Parameter applicability

The H1C simplex termination and VRTD three-wire measurement path apply to this complete CC reference. Lead limits apply together; the selected VRTD detector curve determines the temperature conversion.

System and supply context

The offered H1C terminal board serves a simplex Mark VI VRTD installation, with the temperature conversion performed in the rack.

Integration boundary

Sensor wiring, block retention and the chassis shield termination remain serviceable field interfaces separate from the processor configuration.

Applications / Compatibility

Three-wire detector replacement

Keep each detector and its compensation lead together when transferring bearing or process-temperature wiring.

Shielded cabinet entry

Terminate the sensor-cable shields at the dedicated chassis strips, retaining the documented CE wiring arrangement where applicable.

Block-level maintenance

Use the two removable terminal blocks to identify and restore sensor groups without confusing terminal count with detector count.

Legacy platform retention

Retain the H1C-to-VRTD simplex path when a replacement is intended to preserve the existing Mark VI temperature system.

Precautions scope

Restore compensation conductors and the intended chassis shield arrangement before accepting detector temperatures.

Installation precautions

Engineering field	Interpretation / condition
Identify the compensation conductor	Confirm the two same-end RTD leads and the opposite element lead from the approved wiring record before disconnecting the block.
Retain the block screws	Each 24-position block is secured by two screws; seat the block fully before tightening and pulling on the harness.
Respect wire capacity	Use conductors and terminations within the terminal acceptance up to #12 AWG, with no exposed strands bridging adjacent points.
Apply the shield arrangement	For the documented CE arrangement use double-shielded cable, land all shields at the shield strip and do not terminate the shields at the end detector.
Measure cable resistance	Check the actual two-way resistance, not just route length, before relying on the input compensation.
Test sensor groups independently	Inject or simulate each restored three-wire circuit and compare it with its configured channel before reconnecting all detectors.

Lifecycle and replacement

Engineering field	Interpretation / condition
Terminal status	A manufacturing phase has not been confirmed for IS200TRTDH1CC.
Platform continuity	H1C preserves the simplex VRTD terminal topology; a PRTD-based change is a platform migration with different terminal selection.
Service boundary	Replacing the terminal board addresses the field connection interface; sensor characteristic and scan behavior remain VRTD configuration items.

Available Unit Details

Engineering field	Interpretation / condition
Exact terminal marking	IS200TRTDH1CC retains the complete H1C plus C revision identity; it is not the separate H1CCC order reference.
Physical interface	The item is the TRTD field termination, with two 24-position blocks and two processor-cable connections in the H1C design.
User transport estimate	33cm x 10cm x 5cm and 0.5 kg describe the supplied shipping estimate, independently of connected RTD cable lengths.

Alternative Names

Variant	Complete-model spelling
1	GE IS200TRTDH1CC
2	General Electric IS200TRTDH1CC

Technical notes

Engineering field	Interpretation / condition
Excitation meaning	The connected RTD measurement uses pulsed, multiplexed 10 mA excitation. It is a measurement source rather than continuous transmitter loop power.

Technical notes - continued

Engineering field	Interpretation / condition
Shield versus signal	The chassis shield strip and sensor signal terminals have different functions; using a shield as a compensation conductor defeats the three-wire arrangement.
Temperature assignment	Choose the detector material and nominal-resistance curve in VRTD; terminal-board replacement does not select a universal temperature span.

Technical questions

Full-model question	Engineering answer
Does IS200TRTDH1CC require jumper changes when a Pt100 detector replaces another RTD type?	TRTD has no sensor-selection jumpers. Review the VRTD characteristic and field detector wiring, then verify the conversion with a resistance appropriate to the newly selected curve.
Why can a loose compensation lead on IS200TRTDH1CC cause an error without an obviously open element?	The processor relies on the three-wire relationship to compensate the leads. Check all three terminal connections and compare the lead resistances; continuity across the element alone leaves the compensation path untested.
Can a TMR rack cable set be transferred directly to IS200TRTDH1CC?	H1C uses the simplex two-connector arrangement. Trace the actual R/S/T requirement before selecting a termination; the H1B redundant arrangement is a different connection topology.
What should be checked if one eight-channel group fails after servicing IS200TRTDH1CC?	Inspect that group's block seating and processor cable before disturbing every detector. A common group connection failure can affect multiple otherwise intact sensor elements.
How can a shield-related temperature disturbance on IS200TRTDH1CC be investigated?	Compare the cabinet shield-strip bond, detector-end termination and cable routing with the approved scheme. Correlate noise with nearby switching while keeping the measurement conductors separate from chassis/shield paths.
Why does a short cable not automatically satisfy IS200TRTDH1CC lead requirements?	Conductor size and contact resistance can exceed the permitted two-way resistance before the route reaches its maximum distance. Measure the installed path and include connections in the result.

Technical questions - continued

Full-model question	Engineering answer
Can an RTD simulator prove all circuits on IS200TRTDH1CC through one terminal pair?	A two-wire injection bypasses part of a three-wire field arrangement. Use an approved simulation connection that exercises the intended three conductors, then repeat for each assigned channel.
How is a credible wrong temperature after installing IS200TRTDH1CC distinguished from a failed terminal board?	Compare channel assignment, detector curve and resistance at the terminals. A swapped sensor group or wrong linearization can produce a valid-looking value; controlled resistance points separate conversion/configuration errors from intermittent connections.

Downloads

Document	Content and format
Technical reference	Original GEH-6421H system-architecture pages for the VRTD/TRTD temperature path. PDF, 2 pages.
Engineering guide	Apter Power field guide: three-wire restoration, terminal construction and shield verification. PDF, 2 pages.

What happens after you enquire

Engineering field	Interpretation / condition
1 Review your reference	Send the full marking, quantity and label photos. We review the item and any version details that need clarification.
2 Confirm the offer	Check the quoted reference, condition, included items and expected dispatch date before approving your order.
3 Arrange dispatch	Confirm delivery details and receive the tracking number when it becomes available.

Ordering checks

Engineering field	Interpretation / condition
Match the complete marking	Include IS200TRTDH1CC and every hardware or assembly-revision marking visible on the item. Keep the exact reference on your enquiry and quotation.
Check the offered item before ordering	Request available label and interface photos. Have your maintenance team compare the offered IS200TRTDH1CC reference with the installed equipment and applicable General Electric documentation.

Sourcing and service information

Engineering field	Interpretation / condition
Title-area support	Sourcing Support; 12-Month Warranty
Dispatch Confirmation	Quantity and dispatch date confirmed in quotation.
Dedicated Manager	Personalized one-to-one VIP service
ISO 9001:2015 Certified	Trusted quality management
Warranty Policy	Review the applicable warranty coverage and claim process.
Return Notice	Obtain return approval before sending an item back.
Shipping Method	Worldwide shipping; freight and timing confirmed in quotation.
Parts Availability	Quantity, dispatch date and lead-time start confirmed in quotation.

Technical basis

GE Mark VI System Guide GEH-6421H, Volume I; GEH-6421M, Volume II

Related platform references - separate selection review

General Electric IS200VRTDH1DAC	RTD Input Processor Board
General Electric IS200TSVOH1BDC	Servo Valve Terminal Board

Engineering contact

Discuss the complete unit and installed application with Apter Power.
sales13@apterpower.com | +86 18030235313