General Electric IS200TRTDH1CC

Engineering Installation and Acceptance Guide

Installed work boundary

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

Three-wire RTDs	Simplex TRTD H1C	VRTD processor

01 Simplex termination readiness

Decision / observation	Action and acceptance evidence
Resolve the full identity	Retain the two-letter CC ending. Compare the actual H1C two-connector termination with the installed simplex arrangement; do not add the extra C of a different full reference.
Preserve three-wire groups	Label all three conductors of each RTD together and record their terminal numbers. Record the sensor material and nominal resistance separately from cable identity.
Check the cable conditions	Measure or calculate lead resistance and compare it with the stated two-way limit as well as the distance allowance. Distance alone cannot establish compensation suitability.

02 RTD circuit restoration

Decision / observation	Action and acceptance evidence
Restore both processor links	Trace the two DC-37 destinations to the VRTD path. A redundant six-connector termination or a later-platform RTD interface is a separate compatibility decision.
Prove resistance conversion	Use an approved simulator with the required three-wire arrangement and the circuit isolated as specified. Select test resistance from the actual configured sensor curve.
Compare channel grouping	Check individual sensor values and common connector effects separately. A disturbed shared termination can move several readings without several simultaneous sensor failures.

03 Quantitative acceptance context

Decision / observation	Action and acceptance evidence
Termination allocation	Two 24-position terminal blocks provide 48 positions for sixteen three-wire groups. Use the installed terminal schedule to establish the actual assignments rather than sequentially guessing conductors.

03 Quantitative acceptance context - continued

Decision / observation	Action and acceptance evidence
Resistance and distance	The 300 m allowance is conditional on the stated lead constraints. A cable shorter than that can still exceed the 15 ohm two-way resistance boundary.
Pulsed excitation	The associated 10 mA excitation is a measurement pulse. A handheld reading that averages pulses need not display a continuous 10 mA value.
Simplex connector count	H1C has two DC-37 processor connectors, whereas the redundant H1B arrangement has six. Connector population is a compatibility clue, not permission to convert the installed architecture.

04 Terminal construction and field proof

Decision / observation	Action and acceptance evidence
Block integrity	Inspect both retaining screws on each 24-position block and the conductor termination within the #12 AWG acceptance. Record any repaired contact before repeating the three-wire simulation.
Shield arrangement	For the documented CE installation, retain double-shielded wiring and shield-strip termination without a detector-end shield bond. Record the actual cabinet scheme separately from the signal conductor schedule.
No terminal curve setting	Record the configured detector curve at VRTD, because TRTD has no hardware selection jumpers. The closeout packet must identify the processor curve and the terminal circuit actually exercised.

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

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