GE DS200TCDAG1BFD DS215TCDAG1BZZ01A

Digital Contact Input and Output Processing Board

GE DS200TCDAG1BFD DS215TCDAG1BZZ01A identifies a TCDA digital I/O board offering for the Mark V contact-processing arrangement.

Sourcing Support | 12-Month Warranty

Product summary

Manufacturer part number	DS200TCDAG1BFD DS215TCDAG1BZZ01A
Shipping	Swift global dispatch
Condition	New, original product
Shipping size (est.)	27.8cm x 21.2cm x 2cm
Country of Origin	USA
Manufacturer	General Electric
Product Category	Gas Turbine Control
Spare Part Number	DS200TCDAG1BFD DS215TCDAG1BZZ01A
Weight	0.38 kg

Buyer information / Overview

Contact interrogation originates in the power-distribution arrangement, while each contact input is optically isolated on TCDA; lost interrogation can therefore resemble a failed input card.

Optically isolated acquisition
Field contact state is separated from the receiving digital circuit.

Source-aware diagnosis
Interrogation power loss is distinguished from input interpretation.

Grouped field isolation
Terminal-board grouping affects how a ground-fault investigation is planned.

TCDA reads contact inputs within the Mark V digital I/O core arrangement. The offered identity preserves both DS200TCDAG1BFD and DS215TCDAG1BZZ01A. The base/assembly markings do not by themselves reveal the installed firmware or authorize copying another board's EPROM set.

The normal interrogation source is the internal 125 V DC distribution bus with fuse isolation and current limiting. Other documented voltages from 24 to 125 V DC may require an external source. Each contact input is optically isolated on TCDA, so field-loop power and card interpretation are distinct checks when several inputs disappear together.

DTBA and DTBB terminal boards provide interrogation-isolation jumpers in groups of eight contacts. The manufacturer restricts that isolation work to a stopped turbine. Retain the actual core, terminal assignment and source arrangement, and prove contact state through to the intended logic after the complete accepted board identity is restored.

Controller platform reference: Mark V digital I/O core. Match the installed configuration.

Technical Specifications

Nominal contact interrogation	125 V DC
Conditional alternative interrogation	24–125 V DC
Contact current at 125 V DC	4 mA
Terminal-board isolation group	8 inputs

Technical source: GE SPEEDTRONIC Mark V Turbine Control Application Manual GEH-6195F. Interrogation and isolation values describe the documented Mark V contact-input circuit through TCDA. Core-wide contact/relay counts are not treated as standalone board capacities. The supplied DS200/DS215 pair is retained as a complete offered identity; no undocumented EPROM content is inferred.
Apter Power product summary. A technical reference and field guide are available in Downloads.

Applications / Compatibility

For the Mark V contact-input/digital-I/O arrangement with its actual CD/QD core assignment.

Interrogation source, terminal-board grouping and logic mapping must be retained together; relay contact ratings belong to their own hardware.

Contact-state restoration
Compare the field contact and intended logic point after restoring the identified TCDA path.

Common interrogation fault
Check the source and fuse/current-limited path when several inputs change together.

Stopped-turbine ground diagnosis
Use the documented grouped terminal isolation only under the approved stopped condition.

Assembly and firmware retention
Record both offered markings and the accepted application/EPROM identity before replacement.

Product Precautions

Apply these checks to GE DS200TCDAG1BFD DS215TCDAG1BZZ01A and its documented installation.

Keep both identities Retain the complete DS200 and DS215 order pair.	**Check actual interrogation voltage** Do not apply a default bus voltage to an externally powered installation.
Separate optical isolation from power An isolated input still needs the correct interrogation circuit.	**Stop before grouped isolation** Do not disconnect interrogation groups on a running turbine.
Preserve application devices Record approved firmware and programmable-device identity before exchange.	**Verify logic mapping** Prove the intended contact indication without forcing unrelated control actions.

Lifecycle Status

The exact factory lifecycle phase of DS200TCDAG1BFD DS215TCDAG1BZZ01A is unconfirmed; the documented function is Mark V contact processing.

Preserve the DS200/DS215 pair, core assignment and accepted programmable-device identity; nearby revision codes are not automatic substitutes.

The offered board does not include the separate DTBA/DTBB terminals, interrogation source or output relay assemblies.

Available Unit Details

Offered reference	GE DS200TCDAG1BFD DS215TCDAG1BZZ01A
Identity check	Request both complete markings and readable programmable-device labels with the core position record.
Physical review	Inspect optical-input components, connectors and any signs of field-circuit damage.
Included items	Confirm the identified TCDA board offering; separate terminal, relay and source hardware explicitly listed in the quotation.

Request available-unit photos and details: sales13@apterpower.com

Technical notes

Source duty	The documented normal bus and a conditional external interrogation source are different arrangements.
Terminal duty	Grouped interrogation jumpers are on DTBA/DTBB, not a generic adjustment to make on the processor board.
Assembly duty	Combined order markings do not establish delivered EPROM contents or relay contact ratings.

Alternative Names

GE DS200TCDAG1BFD DS215TCDAG1BZZ01A; DS200TCDAG1BFD DS215TCDAG1BZZ01A

Frequently Asked Questions (FAQ)

1. Why can several lost contact indications be an interrogation fault rather than a failure of DS200TCDAG1BFD DS215TCDAG1BZZ01A?

A common source path can affect multiple field contacts. Compare interrogation power and grouping with individual contact states before condemning the input-processing board.

2. Does optical isolation on DS200TCDAG1BFD DS215TCDAG1BZZ01A remove the need to check field-loop power?

No. Isolation separates circuits; it does not supply the required interrogation voltage. Verify the actual source and return for the affected contacts.

3. Can an external interrogation source be added automatically when fitting DS200TCDAG1BFD DS215TCDAG1BZZ01A?

Use the approved installed circuit. The documented alternative voltage range does not authorize changing the source or reference without an engineering decision.

4. Where should grouped contact isolation associated with DS200TCDAG1BFD DS215TCDAG1BZZ01A be traced?

Identify the DTBA/DTBB terminal-board jumpers and their actual groups. Perform the manufacturer’s isolation work only with the turbine stopped under the approved procedure.

5. Why can an open contact appear as logic 1 through DS200TCDAG1BFD DS215TCDAG1BZZ01A?

The TCDA inversion mask changes a hardware 0 into logic 1 when set to 1, supporting the documented fail-safe trip/alarm convention. Compare the assigned point type and inversion setting before reversing field wiring merely to obtain the expected screen indication.

6. Can relay contact ratings be assigned to DS200TCDAG1BFD DS215TCDAG1BZZ01A from a core-wide table?

The core includes separate terminal and relay hardware. Use the rating for the actual switching component rather than treating the aggregate core as one card.

7. What should be checked if a contact changes locally but not through DS200TCDAG1BFD DS215TCDAG1BZZ01A?

Trace interrogation, terminal grouping, cable/core identity and the intended logic assignment. Compare a controlled contact transition at each relevant boundary.

8. Why might a contact transition reach logic through DS200TCDAG1BFD DS215TCDAG1BZZ01A but produce no change record?

TCDA change detection is separately mask-controlled. A change-detect mask of 0 disables that point's change reporting even though its state can still be used by logic. Check the configured reporting mask and approved event path before replacing an electrically responsive input board.

Downloads

For DS200TCDAG1BFD DS215TCDAG1BZZ01A, the Apter Power technical reference summarizes verified manufacturer data. The field guide develops interrogation-power and contact-to-logic fault separation.

DS200TCDAG1BFD DS215TCDAG1BZZ01A Technical Reference	Apter Power technical reference with manufacturer-based values and exact application boundaries. PDF · 1 pages · 91.0 KB.
DS200TCDAG1BFD DS215TCDAG1BZZ01A Installation & Commissioning Guide	Interrogation-Power and Contact-to-Logic Fault Separation. Resolve common field-loop power loss before changing a contact-processing assembly. PDF · 2 pages · 93.5 KB.

The manufacturer-based technical reference and installation decisions are provided as separate documents.

What happens after you enquire

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

Ordering checks

Include DS200TCDAG1BFD DS215TCDAG1BZZ01A and every revision or approval marking visible on the item. Keep the exact reference on your enquiry and quotation.

Request available label and interface photos. Have your maintenance team compare the offered DS200TCDAG1BFD DS215TCDAG1BZZ01A reference with the installed equipment and applicable GE documentation.

Service and support

Dispatch Planning	Confirm stock and lead time with our team.
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	Check the return process and obtain approval before sending an item back.
Shipping Method	Review shipping arrangements, transit estimates and delivery responsibilities.
Parts Availability	Browse stock listings and confirm current availability with our team.
How to order	See how to submit an enquiry, review a quotation and confirm an order.

Discuss your requirement

Send the full marking, label photos, quantity and required date. Our team will review the available sourcing options with you.

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Related GE product references

Separate supply references; these links do not establish interchangeability.

GE DS200TBQBG1ACB
RST Analog Termination Board

GE DS200TBQCG1ABB
Analog Input Milliamp I/O Termination Module

GE DS200TCPSG1AME
Power Supply Board

GE DS3800NGDC1A1A
Ground Detector Module

GE DS3800NGDD1C1B
Field Ground Detector Card

GE IS400AEBMH1AJD
Alternative Energy Bridge Module

GE IS220PPROH1A
Emergency Turbine Protection I/O Pack

GE SF412024 517-0224-16A-504376 820-0297
Circuit Board Assembly

GE 46-288512G1-F
Gantry I/O Board

GE IS420YAICS1B
Functional Safety Analog Input/Output Pack

Discuss DS200TCDAG1BFD DS215TCDAG1BZZ01A and its installed application with Apter Power.
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