ABB GJR5250500R0262-07KT92

01 Programmable Logic Controller Central Unit

ABB GJR5250500R0262-07KT92 coordinates the application program, local signals and expansion-bus exchanges. Restoring the exact R0262 execution requires the retained software and network configuration as well as a matching electrical interface.

1 Field signals — 2 Local and CS31 I/O — 3 Application program — 4 Outputs and networks

Field signals in the installed system

The central unit integrates digital and analog channels while extending the system through CS31. Local terminal mapping and remote addresses must be reconciled with the application; simply replacing the CPU hardware does not restore the intended control behavior.

Local and CS31 I/O in the installed system

R0262 includes ARCNET, which distinguishes it from the R0202 execution. Preserve the actual communication roles and settings for the programming/ASCII/MODBUS interface and the installed network rather than treating similarly named 07 KT 92 units as identical.

Application program in the installed system

CS31 exchange time depends on the modules and configured data volume. Assess the resulting control response together with program execution and field-device behavior. A bus-time entry is not an end-to-end response guarantee for every application.

The R0262 reference is the 24 V DC 07 KT 92 central unit with ARCNET. Bus timing examples are configuration-dependent and do not establish a universal PLC scan time.

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02 Ratings, interfaces and applicable limits

Nominal supply	24 V DC
Digital inputs	12 isolated, 24 V DC
Digital outputs	8 transistor, 24 V DC / 0.5 A
Analog inputs	4
Analog outputs	2
Expansion bus	CS31
Additional network	ARCNET
Serial functions	Programming, ASCII or MODBUS

Configuration-specific engineering data

CS31 master basic time	2000 µs, configuration calculation basis
07 KT 92 slave contribution	750 µs with default configuration
2-byte transmit / receive contribution	516 µs, configured exchange
8-word transmit / receive contribution	2500 µs, configured exchange

Applying these values to the complete installation

The R0262 reference is the 24 V DC 07 KT 92 central unit with ARCNET. Bus timing examples are configuration-dependent and do not establish a universal PLC scan time. Retain the project and complete R0262 reference together; a matching base name does not establish ARCNET or application compatibility.

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03 Application decisions and system boundaries

01 AC 31 machine control

Execute the approved application with the assigned onboard signals.

02 CS31 distributed I/O

Extend the control system with compatible configured bus participants.

03 ARCNET-connected installations

Restore the R0262 network role with matching peer configuration.

04 Legacy controller maintenance

Preserve application and communications when replacing exact hardware.

Program and hardware identity

Retain the project and complete R0262 reference together; a matching base name does not establish ARCNET or application compatibility.

Signal interpretation

Review range and engineering-unit scaling in addition to terminal assignment, especially for analog channels.

Response-time assessment

Combine configured bus exchange, program behavior and field-device response when validating process timing.

Replacement boundary: Match the ARCNET-equipped R0262 hardware, retained application, CS31 topology and serial/network roles.

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04 Eight questions beyond the specification table

1. **Why is R0202 not automatically equivalent to GJR5250500R0262-07KT92?**

   R0262 includes ARCNET. A replacement lacking the required network interface cannot reproduce the installed communication role merely because the base CPU name matches.

2. **What must be restored before outputs from GJR5250500R0262-07KT92 are released to the process?**

   Restore the approved program, I/O mapping and communication configuration, then validate permissives and outputs in a controlled test state.

3. **Can a CS31 timing-table value be used as the total scan time of GJR5250500R0262-07KT92?**

   No. It describes a contribution under specified configuration; program execution, other bus participants and field devices also affect response.

4. **How can correct local I/O coexist with missing remote data on GJR5250500R0262-07KT92?**

   Local terminals and CS31 exchanges are separate paths. Inspect bus addressing, connections and configuration without assuming a CPU-wide fault.

5. **Why should analog scaling be retained separately during service of GJR5250500R0262-07KT92?**

   An electrically connected analog channel can still be interpreted incorrectly if range, engineering units or application scaling differ.

6. **What should be reviewed before replacing a relay-output controller with GJR5250500R0262-07KT92?**

   This execution uses transistor outputs. Load voltage, polarity, current and protection must match; contact-style wiring cannot be assumed equivalent.

7. **How should serial communication be tested after restoring GJR5250500R0262-07KT92?**

   Confirm the configured interface role and peer settings, then exchange representative application data rather than accepting only a physical connection.

8. **Why validate a representative process sequence after installing GJR5250500R0262-07KT92?**

   Individual I/O checks do not prove interlocks, timing and network dependencies. Exercise the approved sequence before restoring normal control authority.

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05 Selection boundary and service reference

Identify the offered assembly

Compare the GJR5250500R0262 and 07 KT 92 markings, terminals and network interfaces. Request available label and connector photos. Have your maintenance team compare the offered GJR5250500R0262-07KT92 with the installed equipment and applicable ABB documents.

Lifecycle and replacement assessment

The current production and manufacturer-support stage for this exact execution is unconfirmed. Match the ARCNET-equipped R0262 hardware, retained application, CS31 topology and serial/network roles.

Companion equipment and scope

Confirm the central unit; program media, remote I/O, network accessories and field wiring only when itemized. A related product is not an automatic substitute; assess the installed interface and application requirements independently.

Engineering handover

Combine configured bus exchange, program behavior and field-device response when validating process timing. Retain the complete hardware identities, approved configuration and accepted test outcome with the installation record.

Related product references

ABB 07AI91 GJR5251600R4202

ABB 07EA63R1 GJV3074353R1

ABB 07ZE63R302 GJV3074323R302

Technical basis: ABB AC 31 technical catalogue, 1SBC260400R1001. Apter Power technical synthesis for this product configuration.