Siemens 6ES7232-4HD32-0XB0

01 Output assignments

Record four output assignments

Capture channel mode, engineering scaling and receiving device for all four outputs. Keep voltage and current circuits clearly identified before disconnecting the front terminals.

Secure commanded actuators

Place connected valves, drives or other receivers in their approved maintenance state. Review the CPU STOP and power-loss response so an output interruption or default zero value cannot cause an unintended process action.

Analog outputs	4
Output ranges	±10 V, 0–20 mA, 4–20 mA

6ES7232-4HD32-0XB0

02 Load and references

Check each load against its mode

Confirm at least 1000 ohms for voltage loads and no more than 600 ohms for current loops. Include wiring and receiver impedance rather than checking the receiver label alone.

Preserve output references

Trace each output and its return conductor, including channels 2 and 3 on X13. Account for the absence of galvanic isolation when reviewing common references and grounding.

Voltage resolution	14 bits
Current resolution	13 bits

6ES7232-4HD32-0XB0

03 Scaling and STOP

Restore range and raw-value scaling

Match ±10 V or the selected current range to the controller's data conversion. Verify that software scaling uses the appropriate bipolar or unipolar representation before commanding the field device.

Set the STOP substitute deliberately

Restore the intended last-value or substitute-value behavior for every output. Review the default zero value against the process requirements instead of accepting it automatically after a configuration download.

Voltage load	≥1000 Ω
Current load	≤600 Ω

6ES7232-4HD32-0XB0

04 Supply and signal

Verify the 24 V supply

Check supply voltage, polarity and the load budget for the module and receiving circuits. Investigate supply faults before interpreting an output diagnostic as a failed analog channel.

Measure controlled output points

With actuators secured, command low, intermediate and high reference values and measure the resulting signal. Compare the receiving indication as well as the module terminals to detect wiring or scaling discrepancies.

Accuracy at 25 °C	±0.3% of full scale
Accuracy over -20 to +60 °C	±0.6% of full scale

6ES7232-4HD32-0XB0

05 Actuator release

Exercise applicable diagnostics

Test the required mode-specific fault response under the approved procedure. Confirm the controller and operator indication, and restore the normal circuit after testing current wire-break or voltage short-related behavior.

Release the four channels

Record the range, load assessment, STOP behavior and measured output checks. Remove temporary test equipment and overrides before returning the receiving devices to normal process control.

Technical basis: Siemens S7-1200 System Manual V4.6, A5E02486680-AP.

Related product navigation

Siemens 6GK1543-1AA01

Siemens 6ES7431-7QH00-0AB0

These are related references, not confirmed substitutes or an automatically approved assembly.