Allen-Bradley 2711-B5A10

COMPLETE PRODUCT INFORMATION / technical and application dashboard

Allen-Bradley 2711-B5A10 is a PanelView 550 monochrome operator terminal with keypad and touch input, DeviceNet communication and an RS-232 printer/transfer port. It is configured with PanelBuilder32 for its installed control application.

01 Product identity and operating role

Complete identity
2711-B5A10

Product function
PanelView 550 Keypad and Touch Terminal

Supply scope
Offer the 2711-B5A10 terminal; the installed application, DeviceNet node configuration and external accessories must be reviewed separately.

System family
PanelView Standard 550

Engineering priorities

Application continuity
Preserve the PanelBuilder32 application and its DeviceNet node settings before replacement.

Operator acceptance
Prove every used keypad function and touch target against the approved machine sequence.

Port separation
Treat the DeviceNet network and RS-232 printer/transfer connection as separate paths.

System context

The complete 2711-B5A10 order code identifies a PanelView 550 terminal that combines a monochrome 256 x 128 LCD with keypad and touch operation. Its ten function keys and touch cells are assigned by the loaded application, so a replacement must preserve the original navigation and command mapping.

This order code uses DeviceNet for controller communication. Its separate RS-232 connection is assigned to printing and application transfer; it is not a second DeviceNet channel. The catalog specifies 240 KB nonvolatile application memory and 170 KB RAM for this selection, while PanelBuilder32 provides the engineering environment.

The unsuffixed 2711-B5A10 is the AC-powered selection in the published table. During service, record the installed application, DeviceNet configuration, terminal hardware marking and active alarm behavior before removal. Commission the replacement by checking controller data, operator commands, alarm handling and the RS-232 accessory only where used.

Network field identification

Network pair	CAN_L and CAN_H carry the DeviceNet data pair; keep their conductor identity through the installed cable.

Network power	V DC+ and COM supply the network connection; verify polarity and the approved network supply separately from terminal AC input.
Shield	Preserve the specified shield continuity and grounding arrangement in the installed design.

02 Technical capability map

The order-code table identifies the offered DeviceNet/AC configuration; LCD and environmental figures are PanelView 550 family data.

Display family	PanelView 550 monochrome LCD
Visible display area	120 x 60 mm
Display resolution	256 x 128 pixels
Operator input	Keypad and touch screen
Function keys	10 programmable keys, F1–F10
Touch matrix	128 touch cells
Controller network	DeviceNet
Auxiliary port	RS-232 for printer or application transfer
Nonvolatile application memory	240 KB

RAM	170 KB
Engineering software	PanelBuilder32
Supply for 2711-B5A10	85–264 V AC, 47–63 Hz
Input power	45 VA maximum, PanelView 550 AC family
Operating ambient	0 to +55 °C, PanelView 550 family
Storage ambient	−20 to +70 °C, PanelView 550 family
Real-time clock	Battery-backed
External memory	ATA memory card support
Network interface scope	DeviceNet terminal with RS-232 printer/transfer port

03 Integration and use

Machine operator interface

Display machine values and execute project-assigned keypad or touch actions.

DeviceNet control station

Exchange application data with the installed controller over the configured DeviceNet node.

Alarm and status review

Use the programmed terminal screens to acknowledge and inspect machine conditions.

Maintenance replacement

Restore the saved PanelBuilder32 application and verify each active interface after installation.

Technical decisions

Dual operator input	The installed application maps both ten function keys and 128 touch cells; prove the used controls individually.
DeviceNet identity	Preserve node addressing and the controller data map before changing the terminal.
RS-232 separation	The printer and application-transfer connection is distinct from the DeviceNet controller path.
AC supply selection	The unsuffixed 2711-B5A10 is the AC catalog selection; L1 identifies a separate DC order code.

Project retention	Save the PanelBuilder32 application before removing the existing terminal.
Memory boundary	The listed 240 KB nonvolatile and 170 KB RAM apply to this published 550 selection.
Display verification	Use a known test screen to compare the 256 x 128 monochrome image with operator expectations.
Alarm behavior	Test configured alarm annunciation, acknowledgement and any installed print function.
Acceptance evidence	Retain full marking, terminal project, node settings and used input-test results.

04 Installation and diagnostic review

Application archive
Save the installed application and its version before removing the terminal.

Network identity
Record DeviceNet node address and bus arrangement, then verify termination and link state.

Power verification
Confirm the installed AC feed and protective arrangement for the unsuffixed order code.

Operator mapping
Test each used key, touch target, screen transition and command in an approved machine state.

RS-232 role
Reconnect a printer or transfer lead only according to the installed wiring record.

Alarm validation
Prove alarm display and acknowledgement against the controller and operator procedure.

Technical FAQ

How should the application be preserved before replacing 2711-B5A10?	Upload or archive the installed PanelBuilder32 application, record its version and retain the current DeviceNet node settings. After restoring it, compare screens and command behavior with the as-found record.
Why might 2711-B5A10 display screens but show no live controller values?	The terminal application may be present while DeviceNet communication is absent or mapped to the wrong node. Check node addressing, network power, cable, termination and controller diagnostics in the installed design.
How can a nonresponsive key on 2711-B5A10 be diagnosed?	Compare the affected F1–F10 assignment with the loaded application and the corresponding controller tag. Verify the physical key, screen context and controller permissive before attributing the fault to the terminal.
What should be checked when touch targets on 2711-B5A10 do not select the intended action?	Confirm the loaded screen and touch-cell mapping, then check calibration and the condition of the touch surface. Test the action with the machine in an approved safe state.
Which transfer paths can restore a 2711-B5A10 application?	The DeviceNet port can transfer an application over the network; the separate RS-232 port supports a direct computer-to-terminal transfer. Select the method supported by the installed wiring and PanelBuilder32 procedure.
How can 2711-B5A10 be reset without cycling its AC supply?	For a PanelView 550 keypad-and-touch terminal, press Left arrow, Right arrow and Enter simultaneously. The terminal restarts its power-up sequence; record the application state and follow the approved machine procedure first.

05 Service and acceptance

Printer inactive
Check the RS-232 print configuration, cable and application event that generates output.

Application transfer fails
Confirm the serial-transfer procedure, cable and PanelBuilder32 target selection.

Alarm not displayed
Compare the controller alarm bit, project trigger and terminal acknowledgement state.

Wrong supply variant
Check the complete order code and nameplate before connecting a replacement.

Intermittent reset
Measure voltage at terminal startup and inspect cabinet temperature and connections.

As-left record
Archive the restored project and test results for every used operator and network path.

Lifecycle and supply boundary

The current manufacturer phase for this exact complete order code has not been established here. Confirm repair or replacement support for the installed application and network before planning a migration.

Evidence and applicability

Rockwell Automation PanelView Standard Terminal Specifications, publication 2711-TD007A-EN-P, October 2010. The order-code table identifies the offered DeviceNet/AC configuration; LCD and environmental figures are PanelView 550 family data.

Additional installation context: Rockwell Automation PanelView Standard User Manual, publication 2711-UM014G-EN-P.

Related product references

Catalog navigation only; these items are not identified as substitutes.

Allen-Bradley 2711P-RN6	Other product reference; confirm the complete installed model.
Allen-Bradley 2711P-T10C21D8S	Other product reference; confirm the complete installed model.
Allen-Bradley 2711P-RDT7CM	Other product reference; confirm the complete installed model.

Discuss the complete marking with Apter Power.
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