6180P-15BPXPDC

01 / Identify the installed arrangement

Allen-Bradley 6180P-15BPXPDC is a 15-inch integrated display industrial computer with keypad, touchscreen and DC power. It provides a local operator interface for the installed machine application.

System and supply context

Panel-mount the workstation with its sealed front and suitable 18–32 VDC circuit.

Application scope

Run the approved machine or plant HMI software with local keypad/touch input and networked control-system communication.

Pre-work record

Isolate DC supply

Verify the 18–32 VDC source and +24VDC/24VTRN/GND polarity before connection.

Back up the image

Export the installed OS/application image, settings, licenses and network addresses before removal.

Prepare the panel

Check the cutout, clearance and gasket; use the specified clips and tightening sequence for the front seal.

Electrical and interface reference

Display diagonal	15 in.
Native display resolution	1024 × 768
Input voltage	18–32 VDC
DC power consumption	144 W
DC current at 18 V	8 A

6180P-15BPXPDC

02 / Fit, reconnect and commission

Use an appropriate source

Provide an isolated Class 2/SELV input and the documented circuit disconnect/UPS practice.

Protect the touchscreen

Use finger or approved input; avoid sharp tools that could scratch the resistive surface.

Verify restoration

Prove display, touch calibration, keypad, LAN, storage and the complete HMI application before handover.

System behavior

The exact 6180P-15BPXPDC catalog option is listed as a performance-package 15-inch unit with keypad, touchscreen and DC supply. Rockwell specifies the 1500P panel envelope as about 355 × 483 × 225 mm and an approximate 17.6 kg mass. The documented panel cutout is about 326.4 × 429.3 mm.

The DC model accepts 18–32 VDC through a three-screw +24VDC, 24VTRN and GND terminal block. The manual lists 144 W DC consumption and an inrush of 20 A peak for 5 ms at 24 V. A Class 2/SELV isolated source and a circuit disconnect are specified; the operating system should be shut down before power is removed.

Its 15-inch panel is specified at 1024 × 768 native resolution. The original installation instructions describe two Gigabit Ethernet ports and CAT5/CAT5E cabling. Replacement acceptance must include the installed operating-system image, licensed application, network addresses, peripheral function, front-seal condition and panel clip torque.

Applicability

The exact catalog number selects the 15-inch performance DC option. Dimensional, electrical and environmental values are from Rockwell’s 1500P/6180P original manuals; software image and installed accessories vary by unit.

What distinguishes the DC option of 6180P-15BPXPDC from an AC 6180P?

The exact catalog suffix selects a DC supply. Rockwell specifies 18–32 VDC on a three-screw terminal block and 144 W consumption, so the AC inlet and 90–264 VAC data from other models do not apply.

Why should the software image be backed up before replacing 6180P-15BPXPDC?

The computer may contain site-specific operating-system, HMI application, driver, license and network settings. A hardware-identical replacement cannot restore these automatically; record and validate the approved image.

6180P-15BPXPDC

03 / Troubleshoot and hand over

How should the power source for 6180P-15BPXPDC be sized?

Allow for the 144 W DC requirement plus the documented 20 A peak, 5 ms inrush at 24 V. Use the specified isolated Class 2/SELV supply, correct conductor sizing and a separate disconnect.

How is the panel seal of 6180P-15BPXPDC maintained after exchange?

Match the approximate 326.4 × 429.3 mm cutout, inspect the gasket and follow Rockwell’s mounting-clip torque sequence. The front rating depends on correct panel installation.

What network checks follow commissioning of 6180P-15BPXPDC?

Confirm both Gigabit LAN ports, assigned IP/MAC records, physical cabling and HMI data exchange with the actual controllers. Verify separation of control and enterprise networks where the plant design requires it.

How should display scaling be checked after restoring 6180P-15BPXPDC?

Set the graphics driver to the documented 1024 × 768 native resolution, then check application readability, touchscreen alignment and keypad navigation in the approved HMI project.

Why should 6180P-15BPXPDC be shut down before DC power is removed?

Rockwell warns that abrupt power removal can impair the operating system or stored image. Use the normal shutdown and a UPS or controlled power scheme where process operation demands it.

What should be included in the acceptance record for 6180P-15BPXPDC?

Record the full catalog marking, power voltage under load, BIOS/OS image, application version, touch/keypad function, both LAN links and panel seal inspection results.

Technical basis: Rockwell Automation Integrated Display Industrial Computers with Keypad User Manual, 6180P-UM001C-EN-P, February 2014; Installation Instructions 6180P-IN001C-EN-P, July 2013

Technical enquiry

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