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Allen-Bradley

6151 Industrial Computer

Product Data, Installation Instructions & User Manual

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Important User Information

Solid state equipment has operational characteristics differing from those of electromagnetic equipment. “Safety Guidelines for Application, Installation and maintenance of Solid State Controls” (Publication SGI 1.1) describes some important differences between solid state equipment and hard-wired electromagnetic devices. Because of this difference, and because of the wide variety of uses for solid state equipment. All persons responsible for applying this equipment must satisfy themselves that each intended application of equipment is acceptable.

In no event will Rockwell Automation be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.



WARNING: European Application of Industrial Computer Products – This equipment is intended to operate in an industrial or control room environment, which utilizes some form of power isolation from the public low voltage mains. Permission from the local power authority should be obtained before connecting this equipment directly to public mains.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation cannot assume responsibility or liability for actual use based on the examples and diagrams.

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Throughout this manual, we use notes to make you aware of safety considerations.



ATTENTION: Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss.

Important: Identifies information that is especially important for successful application and understanding of the product.

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Rockwell Automation Corporation warrants that this product described in this document will be delivered free of defects in materials and workmanship. In the event any such defect is detected within a period of 12 months following the date of initial delivery. Rockwell Automation will repair or replace the equipment at no charge.

This warranty is exclusive and in lieu of any warranty of merchantability, fitness for a particular purpose, or any other warranty expressed or implied (except that the title and that against patent infringement), and is extended only to the original purchaser of the equipment. The purchaser voids his title to the benefits of this warranty that does not treat the equipment in accordance with Rockwell Automation's recommendations or in accordance with good industry practice.

FCC Warning

The equipment described in this document generates, uses, and emits radio frequency energy. The equipment has been tested and found to comply with FCC Rules, Part 15, subpart J, for Class A computing devices.

These rules establish limits for radio emissions considered reasonable for commercial environment without liability in case of interference to other equipment, provided he follows the installation and operations guidelines given in this document. However, the equipment is not certified for operation in a residential environment. The user who operates it in such an environment, and by doing so causes interference with radio communications, can be required to take remedial action at his own expense.

These of non-shielded interface or power cords with Rockwell Automation workstations is prohibited.

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Using this Manual

Read this preface to familiarize yourself with the rest of the manual. The preface covers the following topics:

- who should use this manual
- the purpose of the manual
- conventions used in this manual
- Rockwell Automation support

Who Should Use This Manual

Use this manual if you are responsible for installing, using, or troubleshooting the 6151 Industrial Computer.

Purpose of this Manual

This manual is a user guide for the 6151 Industrial Computer. It gives an overview of the system and describes procedures you use to:

- install the 6151 Computer in a panel or enclosure
- install and remove system components
- run the system
- troubleshoot the system.

Manual Conventions

The following conventions are used throughout this manual:

- Bulleted lists such as this one provide information, not procedural steps.
- Numbered lists provide sequential steps or hierarchical information.

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Rockwell Automation Support

Allen-Bradley offers support services worldwide, with over 75 Sales/Support Offices, 512 authorized Distributors and 260 authorized Systems Integrators located throughout the United States alone, plus Allen-Bradley representatives in every major country in the world.

Local Product Support

Contact your local Allen-Bradley representative for:

- Sales and order support
- Product technical training
- Warranty support
- Support service agreements

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If you need to contact Allen-Bradley for technical assistance, please review the information in the Troubleshooting section first. Then call your local Allen-Bradley representative or contact Allen-Bradley technical support at (440) 646-5800.

For additional product information and a description of the technical services available, visit the Rockwell Automation/Allen-Bradley Internet site listed above.

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Bulletin 6151 Industrial Computers with Integrated LCD and Keypads

Descriptions

The Bulletin 6151 Industrial Computers feature:

Note: This section only describes components included in a standard configuration.

LCD Monitor

- Integrated 12.1” TFT Display
- Designed for industrial use
- Special BIOS-controlled resolution of 656 x 496

Numeric and Cursor Keypad

- 33-key control keypad
- 10 front-panel function keys

Function Keys

- Built in function keys
- F1-F10

Access Panel

- Encloses the keyboard connector
- Hard disk LED
- Power LED
- Floppy disk drive

8-slot Passive Rear Panel

- Connector points
  - Two COM Ports
  - One LPT1
  - Ports for a monitor and keyboard
- Expansion slots
- Thumb screws to open the computer
- Display Controls to adjust screen display
- AC + DC power and LCD connectors

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- LCD Fuse
- Power Switch

ISA system architecture

Packing List

Note: Check your shipment against the packing list in the shipping carton. Some of these items may not be needed for your option. Bulletin 6151 Industrial Computers are shipped with the following items:

- Computer with integrated LCD, with a protective clear polycarbonate shield
- 1.82 m (6 ft.) AC power cord (optional)
- Interconnect loop-through cable for external keyboard
- Mounting hardware kit: package of 16 10-32 lock nuts, 16 flat washers and 2 labels
- Bulletin 6151 Product Data, Installation Instructions & User Manual
- CPU/Processor Manual.

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Installation Instructions

Considering Environmental Issues

For proper cooling, the computer requires a minimum free air space of 7.6 cm. (3 in.) behind, 3.1 cm. (2 in.) above and below, and 2.5 cm. (1 in.) on the sides of the chassis. The computer is equipped with fans to help ensure proper cooling.

Strong magnetic fields near the front of the computer outside the enclosure could potentially distort the image over time.

Getting Started

Before unboxing the workstation, inspect the shipping carton for damage. If damage is visible, immediately contact the shipper and request assistance. Otherwise, proceed with unboxing.

After unpacking, retain the orginal box and packing material in case the unit must be shipped to another site or returned to Rockwell Automation for any reason.

Installing the 6151

The panel on which the Industrial Computer is to be mounted should be at least 14 gauge steel to insure a NEMA 4 seal and proper support for the unit. The mounting studs will accommodate this minimum thickness panel and panels up to 6.35 mm (.25 in.) thick.

To install the Bulletin 6151 Industrial Computer:

1. Confirm that the shipping carton contains a package of 16 10-32 lock nuts and 16 flat washers. You will need 14 nuts for installation of Bulletin 6151.

2. Refer to the physical dimension drawing (See Physical Dimensions) and confirm that there is adequate space behind the panel where the unit is to be situated. Remember to allow extra space for air circulation.

3. Refer to the panel cutout drawing for dimensions of the panel cutout and location of mounting holes. Cut and drill the panel. (See Panel Cutout)

Tip: It will be easier to install the computer if you support it with a shelf or other support adjusted to the appropriate height.

4. Carefully remove the computer from its packaging. Avoid damaging the panel gasket.

5. Insert the computer in the panel cutout from the front of the panel.

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6. Install the washers and nuts provided on the mounting studs behind the panel.

7. Tighten the nuts evenly to 25 inch-pounds of torque.



ATTENTION: Mounting nuts must be tightened to a torque of 25 inch-pounds to provide panel seal and avoid potential damage to the Bulletin 6151 Industrial Computer. Allen–Bradley assumes no responsibility for water or chemical damage to the Bulletin 6151 Industrial Computer or other equipment within the enclosure due to improper installation.

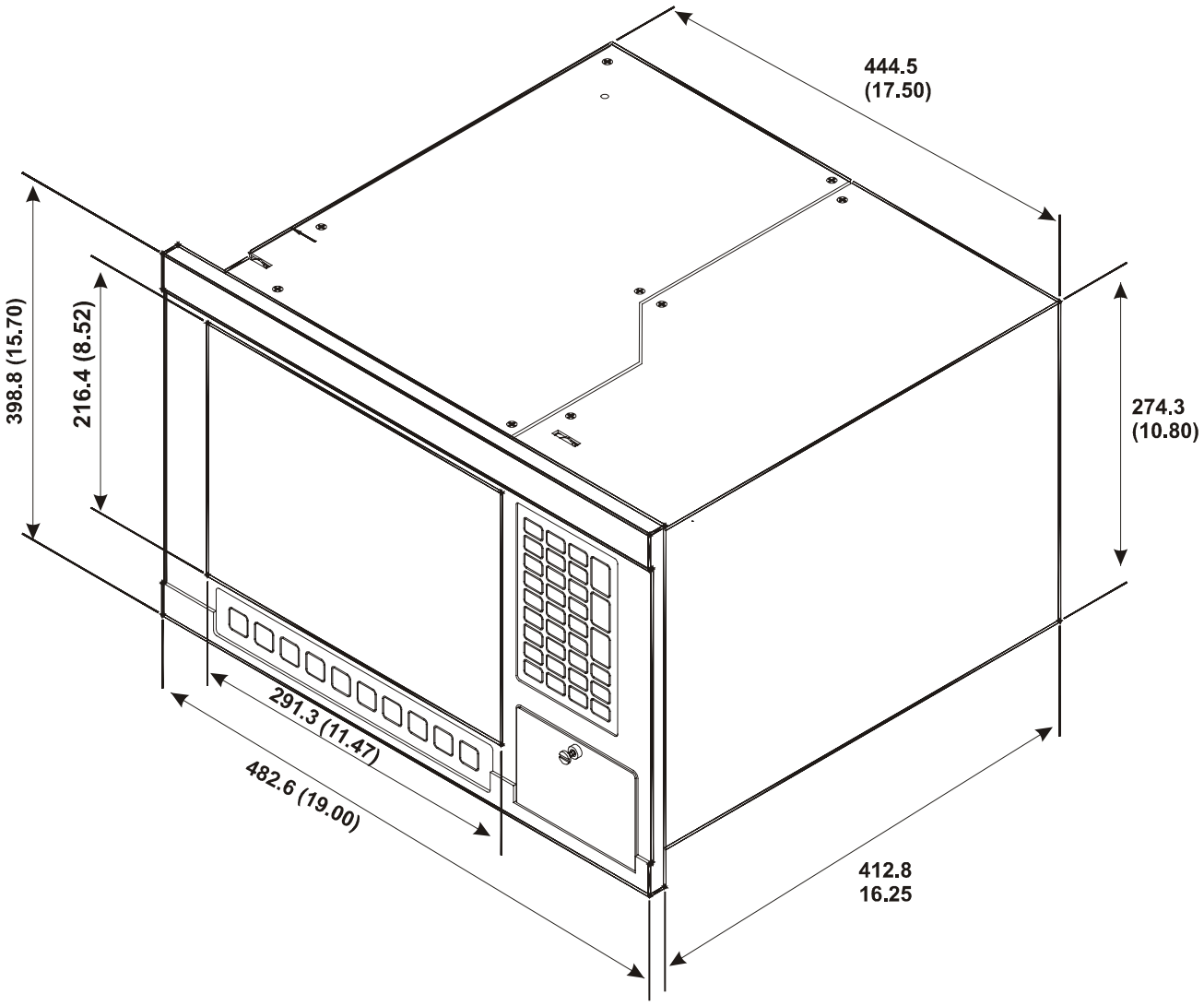
Important: To assure a proper seal, be sure to install a nut and washer on each of the mounting studs: 14 for Bulletin 6151.

8. Remove the protective adhesive sheet from the screen of the Industrial Computer. The sheet is designed to prevent scratching of the polycarbonate screen protector or the optional touchscreen during shipping and installation. It should be removed before use.

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Physical Dimensions

Figure 1
Bulletin 6151 Industrial Monitor Physical Dimensions

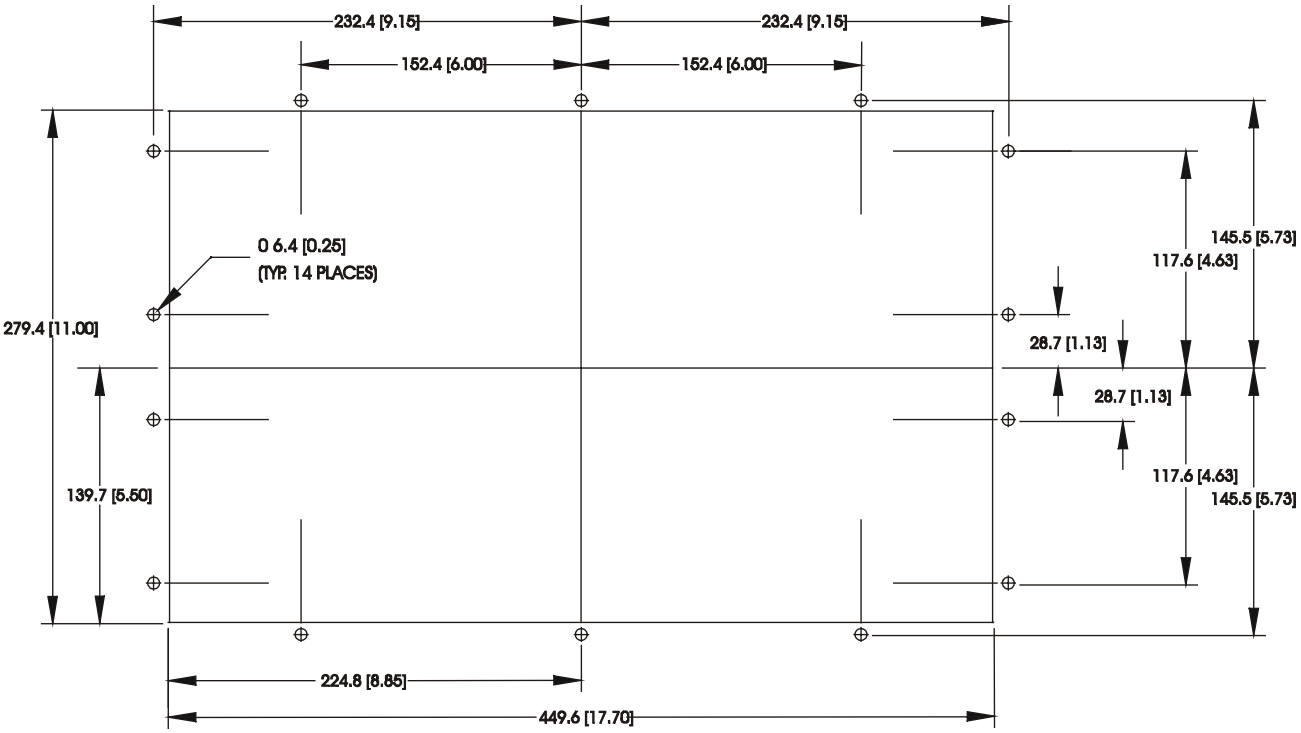


Note: Be sure to allow at least 76.2 mm (3.00 in.) depth clearance for cable connections and air flow

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Panel Cutout

Figure 2
Panel Cutout for Bulletin 6151



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Connecting AC Power

Note: The references in the following instructions are from Controls & Indicators on page 2-6.

Controls and other items relating to the computer section of the Industrial Computer are labeled with black numbers on a white ground.

Controls and other items relating to the monitor section of the Industrial Computer are labeled with white numbers on a black ground.

To connect AC Power to the Industrial Computer

The computer requires a single-phase power supply providing either:

- 100-120VAC or 200-240VAC at 47-63 Hz
- 18-32VDC

Power must be available at the three–pin AC or two-pin DC input receptacle situated in the rear of the unit.

1. Turn off the main switch or breaker that supplies power to the Industrial Computer.

2. Use the GND point ❺ on the rear panel of the monitor to establish a chassis to earth ground connection. Secure one end of a ground strap to the GND point. Connect the other end of the ground strap to a good earth ground.

   The ground terminal is an M5 screw.



ATTENTION: Chassis ground must be connected for safe operation of the monitor. The AC receptacle on the monitor is a 3-wire type with chassis ground pin, and the mating AC cord supplied is a 3-wire type, designed for connection to a grounded 3-pin AC outlet. However a properly grounded AC outlet is not always available, and grounding using a 3-wire cord can easily be defeated. If you fail to ground the monitor properly, the setup may result in personal injury from electrical shock or damage to equipment.

3. Do one of the following:

   - For an AC unit, connect the socket end of the 1.82 m (6 ft.) AC power cord supplied with the Industrial Computer to the mating connector on the rear panel of the computer.

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- For a DC unit, connect +VDC to 24VDC screw terminal ❼, DC Common to -VDC screw terminal, and earth ground to GND screw terminal.

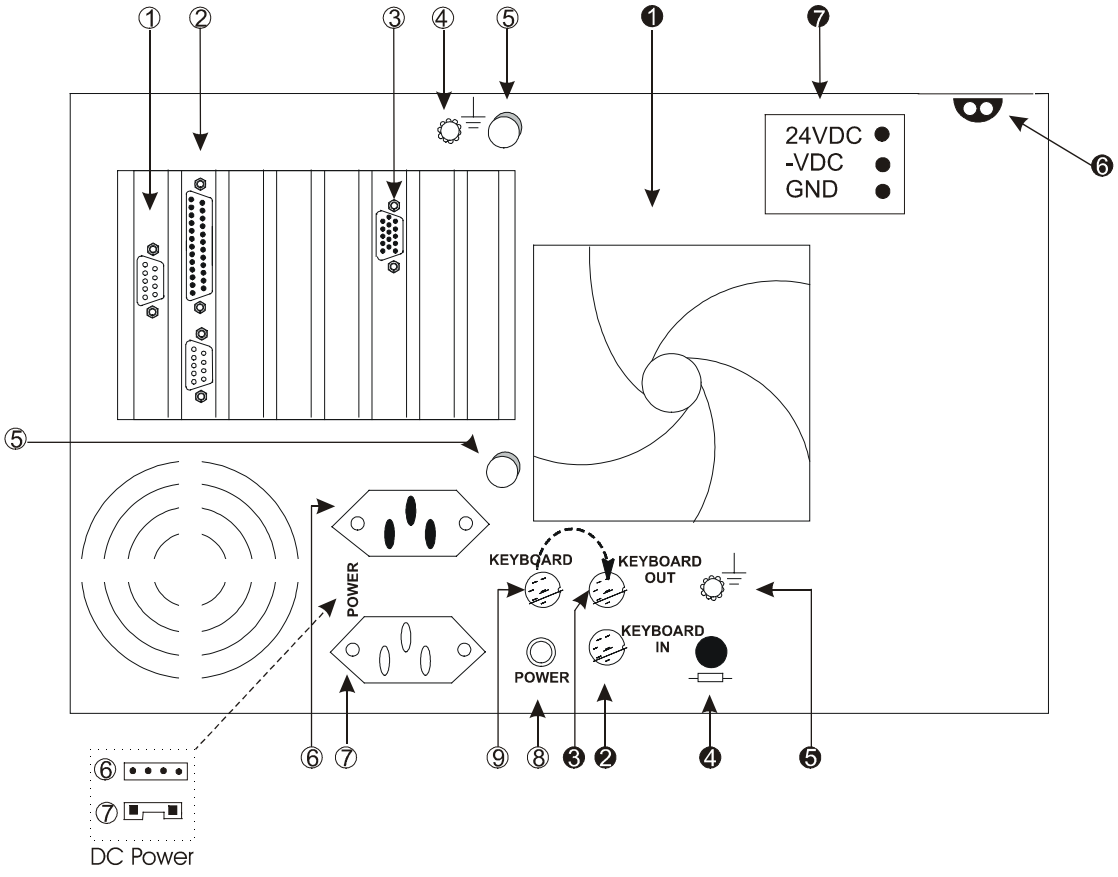
4. Connect the 53.3 cm (21”) male to female power extension cable supplied with the Industrial Computer. This cable runs from the switched outlet ⑥ on the rear of the computer to the AC power connector ❻ for the monitor.

5. Connect the plug end of the AC power cord to the mains power supply.

Controls & Indicators

This is an example of one possible setup for the 6151 Industrial Computers. The callouts are described in Table A.

Figure 3
Back View of One Setup for Bulletin 6151 Industrial Computer configured for AC power

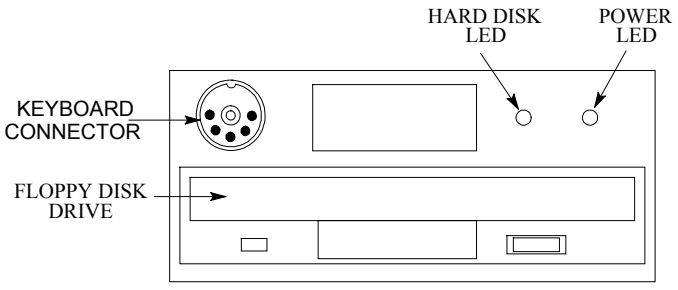


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Table A
Control and Indicators Callouts

Computer Items	
①	Serial Port (COM1) - DB9
②	Parallel Port (LPT1) - DB25 Serial Port (COM2) - DB9
③	HD15 Port from video card (Optional) **[C]**
④	Ground Screw
⑤	Thumbscrews to open computer
⑥	AC + DC power outlet to monitor
⑦	AC power input from line DC power input from line filter
⑧	Power switch (on/off)
⑨	Port for keyboard jumper
Monitor Items	
❶	Fan filter
❷	Connector for the optional keyboard
❸	Port for keyboard jumper **[B]**
❹	Fuse for monitor (DC units only)
❺	Ground Screw
❻	AC or DC united cable assembly
❼	Input Terminal (DC units only)

Figure 4
Example of Front Control Panel Setup for Bulletin 6151 Industrial Computer



The Hard Disk LED glows green when the hard disk is being accessed.

The Power LED glows green when the computer has power.

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Important: The keyboard connector is active when the keyboard jumper in the back of the computer is connected.

LCD Controls

Figure 5
Controls

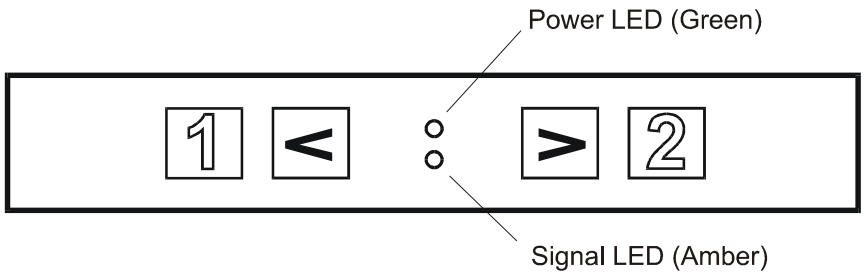


Table B
Control Keys

Control	Description
1 (Select)	This operation key: • Displays the main menu. • Displays the control box for the highlighted selection when the main menu is displayed. • Toggles between the control box and any of its secondary control boxes. • Answers “Yes” to questions.
< > (Down, Up)	Arrow keys have two functions: • If the main menu is displayed, pressing these keys moves the cursor to desired selection that needs adjusting. • If a control box is displayed, these keys may be used to adjust the value for the control.
2 (Exit)	This operation key: • Records changes made to the selection when the control box for a desired selection is displayed. The control box closes and the main menu is displayed. • Exits the main menu. This action memorizes any settings and completes the adjustments. • Answers “No” to questions.

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Keypads

A Bulletin 6151 Industrial Computer is equipped with:

- function keypad with 10 keys
- 33-key numeric keypad with numeric keys, cursor keys, and modifier keys.

The following tables provide the scan code values for all the keys. Each key can be set up as you need it for your work. The keypads are of embossed membrane design for high reliability and good tactile feedback.

Function Keys

Function keys 1 to 10 act in the same way as the equivalent keys on standard IBM AT keyboards.

Figure 6
Function Keys

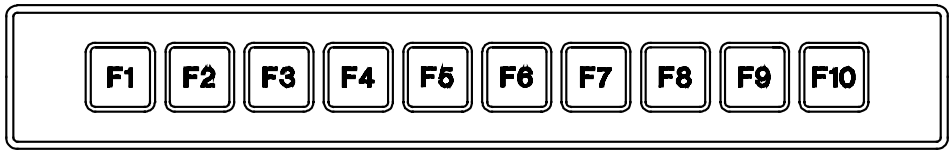


Table C
Function Key Scan Code Values

Keypad Legend	Scan Code (Hex)
F1	3B
F2	3C
F3	3D
F4	3E
F5	3F
F6	40
F7	41
F8	42
F9	43
F10	44

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Numeric Keypad

Figure 7
Numeric and Cursor Keypad

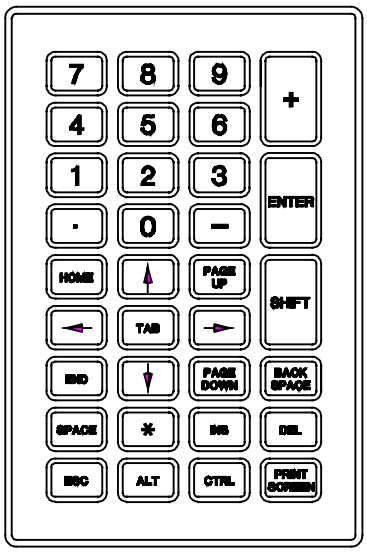


Table D
Numeric Keypad Functions and Scan Codes

Keypad Legend	Corresponding AT Key	Scan Code (Hex)	Keypad Legend	Corresponding AT Key	Scan Code (Hex)
7	Number Pad 7 / Home	47	TAB	Main Pad Tab	0F
8	Number Pad 8 / Up Arrow	48	ENTER	Main Pad Enter	1C
9	Number Pad 9 / Pg Up	49	SPACE	Main Pad Space Bar	20
9	Number Pad 9 / Pg Up	49	SPACE	Main Pad Space Bar	20
–	Number Pad – 4A	SHIFT	Main Pad Left Shift	2A	
4	Number Pad 4 / Left Arrow	4B	CTRL	Main Pad Left Control	1D
5	Number Pad 5	4C	ALT	Main Pad Left Alt	38
6	Number Pad 6 /Right Arrow	4D	HOME	Home	E0, 47
+	Number Pad +	4E	↑	Up Arrow	E0, 48
1	Number Pad 1 / End	4F	PAGE UP	Page Up	E0, 49
2	Number Pad 2 / Dn Arrow	50	←	Left Arrow	E0, 4B

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Keypad Legend	Corresponding AT Key	Scan Code (Hex)	Keypad Legend	Corresponding AT Key	Scan Code (Hex)
3	Number Pad 3 / Pg Dn	51	→	Right Arrow	E0, 4D
0	Number Pad 0 / Ins	52	END	End	E0, 4F
.	Number Pad . / Del	53	↓	Down Arrow	E0, 50
*	Number Pad *	37	PAGE DOWN	Page Down	E0, 51
ESC	Main Pad Escape	01	INS	Insert	E0, 52
BACK SPACE	Main Pad Back Space	0E	DEL	Delete	E0, 53
			PRINT	SCREEN Print Screen	E0, 2A, E0, 37

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Communication Setups

1. Connect the cables according to the options in your Industrial Computer (see below).

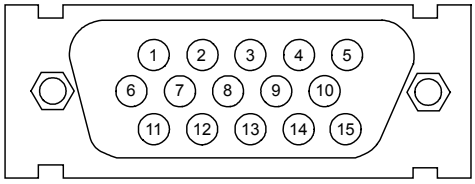
2. Route and secure the cables. In cases where the cable crosses a door hinge, be sure to leave enough excess cable for a loose fit in all door positions.

3. Coil and secure any extra cable length in a convenient location.

Video Cables

The Video cable is equipped with a conventional HD15 connector at each end.

Figure 8
Standard VGA Video - HD-15



View looking into the Pin End of the **Male** connector

HD15

Table E
Standard Cable Construction

Monitor HD15	Signal Description	Computer HD15
2	Green Video	2
7	Green Video Ground	7
1	Red Video	1
6	Red Video Ground	6
3	Blue Video	3
8	Blue Video Ground	8
5	Composite Sync	5 (Not Used)
11	(Floating) ID0	11
12	(Floating) ID1	12
4	(Gnd) ID2	4
9	Not Connected	9
14	Vertical Sync	14
10	Sync Ground	10
15	Control	15 (Not Used)
13	Horizontal Sync	13

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Note: The references in the following instructions are from Controls & Indicators on page 2-6.

- Controls and other items relating to the computer section of the Industrial Computer are labeled with black numbers on a white ground.
- Controls and other items relating to the monitor section of the Industrial Computer are labeled with white numbers on a black ground.

To establish video connections between the monitor and the computer:

1. Connect the standard 15-pin connector end of the video cable from the AC or DC united cable assembly to the Video Output connector ③ on the computer's side.

The Keyboard Option

For computers configured with the keyboard option, use the 5-pin DIN keyboard cable ⑨.

1. Connect the female end to the monitor's Keyboard Out connector ❸.

2. Connect the male end to the computer's Keyboard connector ⑨.

An IBM AT keyboard may be connected to the front panel 5–pin DIN connector or to the rear panel Keyboard In connector. ❷.

Only one auxiliary keyboard input port can be used at any time.

If your computer uses a mouse or other input device:

Use a standard RS-232 cable to support a mouse or other device connected via the Industrial Computer's rear panel RS-232 ports (① or ②).

1. Connect one end of the device's RS-232 cable to the appropriate connector on the rear panel of the computer.

2. A cable with captive screws should be used and they should be tightened to secure it.

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Computer Chassis

You may have to open the computer chassis to install a card or for some other reason.

1. Loosen the two thumb-screws ⑤ at the rear of the unit.
2. Unplug the keyboard, power, and video cables.
3. Slide the chassis straight back and out to the stop, taking care to support the chassis as it slides free of its rails.
4. To remove the computer drawer completely, pull it out to the stop and then give it a tug to move it past the catch.

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Maintenance

Preparation for Shipment

If it is necessary to ship the computer from one site to another, it should be removed from the panel or cabinet in which it has been installed. Whenever possible, the computer should be repacked in its original shipping carton.



ATTENTION: Never try to ship the Industrial Computer while it is mounted in a panel. Doing so could result in damage to the panel or the Industrial Computer.

To remove the computer from the panel, reverse the installation procedures given previously in this manual.

Note: Be careful to remove the Ground wire before removing the computer from the panel or rack

Fuses

Bulletin 6151 Industrial Computers are equipped with an line fuse ④ to protect the monitor. DC unit power supplies have a second line fuse. Fuses are accessible from the rear panel.

Note: DC units use a second line fuse (Very Fast Acting 3AB rated at 30A, 65V DC) on the 24V DC power supply.

To replace a fuse:

1. Remove AC power by disconnecting the AC or DC line cord.
2. Use a flat blade screwdriver to unscrew the cap on the fuse holder.
3. Remove the cap and fuse.
4. Replace the fuse with a 5ST Slo-Blo type rated at 2.5A, 250VAC.
5. Secure the fuse holder cap with the screwdriver.
6. Restore power.

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Cleaning

To inspect the filter

The monitor has an air filter ❶ at the back of the Industrial Computer. Filters should be removed and cleaned or replaced as necessary to maintain proper cooling.

Important: Every few weeks make sure the fans are operating correctly. If the fans are broken, the computer may overheat.

Cleaning the display panel

Occasionally clean the display panel and cabinet with a soft cloth dampened (not soaked) with a mild (non-abrasive) glass cleaner. Keep turning a fresh side of the cloth toward the screen surface to avoid scratching it with accumulated grit.

Note: The solvent should be applied only to the cloth, and not directly on the monitor screen.

Do not use paper products as they may scratch the surface. To minimize the risk of abrasion, allow the screen to stand dry.

Special care should be taken when cleaning a touchscreen or polycarbonate shield that is installed over the screen. Abrasive and certain chemical cleaners can easily damage the surface.

Note: For best results cleaning a monitor with the optional, antireflective tempered glass display shield, a solution of denatured alcohol is recommended to thoroughly clean the display.

Never use alcoholic or ammoniac cleaners to clean the polycarbonate shield or a touchscreen.

Replacing the Battery

The 6151 Computer contains a battery to maintain the CMOS settings and real-time clock. The battery is located in a battery holder on the backplane. Replace this battery as needed with a Panasonic battery, part number CR2032, or Allen-Bradley part 6189-1BATT.



ATTENTION: There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

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Troubleshooting and Specifications

Troubleshooting

Use this table to help you identify the potential cause of problems you may encounter with the 6151 Industrial Computer.

Table F
Potential Cause of Problems

Symptom	Possible Cause	Procedure
No Video	No power	Check to see if front control panel LED is illuminated; if not, check power wiring; check for presence of proper voltage; check AC line fuse.
	Video cable problem	Check for proper video cable installation; replace suspected faulty cable
No keypad communications	Keypad cable problem	Check for proper cable installation; replace suspected faulty cable
No touchscreen communications	Touchscreen cable problem	Check for proper cable installation; replace suspected faulty cable. Refer to the touchscreen documentation provided for further information.

Specifications

Processor/Memory	
Processor/Speed (MHz)	486DX4/133 MHz,
Memory Options	4M (for 486DX4/100 only), 8M, 16M, 32M, 64M

System	
System Bus Architecture 16	bit ISA, 8 slots
Available Expansion Slots	3 full length, 3 half length ISA
Serial Ports, Standard	2
Parallel Ports, Standard	1
Operating Systems	MS DOS

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Mass Storage	
Internal Drive Bays	2
Diskette Drive	3.5 in., 1.44 MB
Hard Disk drives	8+GB EIDE

Operator Input	
Standard Keyboard Interface	Front/Rear panel 5-pin DIN (Standard AT)
Standard Input Device	33-key numeric/cursor pad 10-key function pad
Video Controller	VGA/1MB
LCD Size	12.1” TFT Display
Resolution	Special BIOS-controlled resolution of 656 x 496

Cables
AC power cord, 1.5 ft. Video Cable
DC keyboard cable

Environmental
(specifications assume standard configuration, excluding diskette drive)

Temperature	
Operating	+5°C to +50°C
Storage	25°C to +60°C
Relative Humidity	8% to 80% noncondensing
Altitude	
Operating	0 to 10,000 ft. (3,000 m)
Non–Operating	0 to 40,000 ft. (12,000 m)
Vibration	
Operating	1.0g peak @ 10-150Hz sine sweep, .006in. peak-peak
Non–Operating	2.0g peak @ 20-500Hz sine sweep, .01in. peak-peak
Shock	
Operating	10g (1/2 sine, 11 msec)
Non–Operating	30g (1/2 sine, 11 msec)

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Electrical	
Line Voltage	100-120V AC, 200-240V AC auto-switching 18-32V DC option
Line Frequency	47-63 Hz
Power Consumption	90W typ., 200W max. (AC), 90W typ., 180W max. (DC)

Fuse
250V AC 2.5A, 5ST Slo-Blo (monitor)
65V DC 30A, 3AB VFA (DC option units)

Safety	
Electric Shock, Fire	UL 1950, C-UL 1950 recognized component

Physical	
Dimensions	19.0 in. W x 12.2 in. H x 16.3 in. D (483mm x 310mm x 413mm)
Net Weight	37 lb. (17 kg)

Certifications
NEMA 4/12
UL 508/ C-UL 508 listed
EN60950, UL/ C-UL 1950 recognized component
CE

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