

AB 1500 PV+6 HMI INSTALLATION SERVICE GUIDE



This manual contains technical information regarding Bayer SeedGrowth[™] Equipment. Please read and understand these instructions completely before proceeding to install and operate the equipment. Bayer reserves the right to change specifications, models, components, or materials at any time without notice. For additional equipment information contact us at 1.800.634.6738. Please have this manual available when contacting Bayer.

This manual uses signal words and symbols to help avoid personal injury. Danger, Warning, and Caution are signal words used to identify the level of hazard.



Danger alerts that an extreme hazard will cause serious injury or death if operators or installers do not follow the recommended precautions.



Warning alerts that a hazard may cause serious injury or death if operators or installers do not follow the recommended precautions.



Caution alerts that a hazard may cause minor or moderate injury if operators or installers do not follow the recommended precautions.



Tip: calls attention to special information.

Note: emphasizes general information worthy of attention.

Example: gives a problem or exercise that illustrates a method or principle.

Always use caution and common sense when working with any chemical. Read the product label and SDS carefully and follow their instructions exactly as described.

Optimal operating conditions for this piece of equipment requires an ambient temperature 32° F to +104° F (0° C to +40° C), relative humidity less than 90% (minimum condensation). Make necessary provisions to protect this piece of equipment against excessive dust, particles containing iron, moisture and against corrosive and explosive gases.

Our technical information is based on extensive testing and is, to the best of our current knowledge, true and accurate but given without warranty as the conditions of use and storage are beyond our control. Variables, such as humidity, temperature, change in seed size or variety and viscosity of chemical products can all affect the accuracy of the chemical application and seed coverage. To ensure the desired

application rate and optimum seed coverage, check the calibration periodically throughout the day, and make adjustments as needed.



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HMI INSTALLATION



Note: This guide is an inter-active PDF: the hand cursor icon (shown below) indicates an action to navigate forward to the next step. Touch to advance.



Caution: Ensure that all power running to the control panel is off. Disconnect power from power source.

Arrival/Inspection

The new HMI plus hardware and a convert kit ships in a box. Unpack the HMI and report any damage that may have occurred during shipping.



New HMI installed on control panel

Factory-supplied Items

Required software (supplied): upgrade firmware, program, report .exe file, Drill pattern, and adaptor plate.



Required installation tools

- Screwdriver (Phillips)
- Screwdriver, small (flat)
- Hand drill
- 5/16" wrench
- Clamps

Remove existing HMI

Step 1: Open the control panel door. Disconnect the Ethernet cable and the power cord from underneath the HMI.



Step 2: Use a screw driver to remove all screws holding the existing HMI in the control panel door brackets.

Step 3: Remove three brackets from the control panel door.



Step 4: Tip the existing HMI out of the front of the control panel and carefully remove it, holding on to it with your hand.







Install new HMI

Step 1: Remove the adapter drill jig from the convert kit (can use the paper version from the drawing provided with the convert kit, as shown below). Place it over the cut-out hole on the control panel door (front).

Align the adapter drill jig with the corner of the existing opening. Clamp in place and score (mark) the drill pattern on the control panel (then move to next corner). Drill (10) .25 [6] clearance holes at installation for mounting adapter to existing panel.



Step 2: Place the adapter weldment on the control panel door (front), inserting the studs (on the adapter weldment backside) into the previously drilled holes, as shown below.





Step 4: Hold the adaptor plate in place with one hand and fasten it to the control panel (backside) using 10 (ten) 10-32 hex nuts provided with the kit. Tighten in place with a 5/16" wrench.



Step 5: Insert the new HMI in the adaptor plate.



Step 6: Hold the HMI in place with one hand and fasten it the to the control panel (backside) with the supplied eight (8) fasteners (see inset photos below). Use a Phillips screwdriver to tighten snug each fastener to the control panel door.



Step 8: Connect the Ethernet cable to the new HMI.



Step 7: Cut off the existing control panel power cord receptacle. Strip leads back and connect them to the plug provided with the touch screen. Insert the plug into bottom of the HMI. Tighten two screws.





Step 9: Close the control panel door and restore power to the control panel.



Black wire goes on L1, White wire on L2 and Green wire on Ground slot (



SOFTWARE INSTALL



Non-programmed AB 1500 PV-P Touch Screens Step 1: Turn ON the Main Power Switch (as shown in the UP position). Step 2: Turn ON the Screen Controller Switch (shown in the OFF position).

Step 3: Load firmware (Rockwell Software) update onto a USB stick, 1file (autorun.exe) and 1 folder (Upgrade). You can also load program onto a USB Flash at this time to be used later **Э**





Step 4: Open the control panel door and insert the USB into the HMI (port 1 or 2).



Firmware Upgrade Card

Firmware version (Major.Minor.Patch.Build)

Terminal:	7.00.55.13
Upgrade	08.00.010

The terminal is about to be upgraded with new firmware. FactoryTalk View ME Station and any running applications will be terminated.

After updating files, the terminal will be restarted to complete the upgrade.

Press the upgrade button to continue. Otherwise, press the Exit button and remove the firmware upgrade card.



Firmware Upgrade from 7 to 8

Step 1: The HMI splash screen opens asking to upgrade? Touch to select Upgrade [F7]. The HMI has now rebooted.







Step 2: Touch to select Terminal Settings [F4].

Alarms Diagnostics Setup Display Desktop Access Setup File Management Font Linking Input Devices File Integrity Check Networks and Communications Print Setup Startup Options System Event Log System Information Time/Date/Regional Settings

Step 3: Arrow down to **Display** and touch ← to enter.











Step 5: Touch to select Disable. Touch to select OK [F7]. Touch to select Close until you are at the main screen.

Step 4: Arrow down to Screen Saver and touch ← to enter.







Load Program

Step 1: Now let's load the program. Touch to select Terminal Settings [F4].

Alarms **Diagnostics Setup** Display Desktop Access Setup File Management Font Linking Input Devices File Integrity Check Networks and Communications Print Setup Startup Options System Event Log System Information Time/Date/Regional Settings

Step 2: Arrow down to File Management and touch + to enter.











Step 5: Touch to select Source [F1]. Touch to select External Storage 2.

Step 3: Touch Copy Files to enter.



Note: select either External Storage 1 or 2, depending upon which port the USB flash drive was plugged into (see page 8, Step 4).

Step 4: Touch Copy Applications to enter.







Step 6: Touch Destination [F1] to enter. Touch Internal Source. Touch Copy [F2] to enter. After copy is complete touch Cancel [F3] to enter.



Step 7: Touch Close to enter.



Copy Files
Location to Load Application
Step 8: Touch Close to enter.
Alarms
Diagnostics Setup
Display
Desktop Access Setup
File Management
Font Linking
Input Devices
File Integrity Check
Networks and Communication
Print Setup
Startup Options
System Information
Time/Date/Decional Settings
TIME/Date/negional Settings

Step 9: Touch Close to enter.

Step 10: Remove USB drive.











Step 11: Touch to select Terminal Settings [F4].



Step 13: Touch to select Load [F2].





Do you want to replace the terminal's current
communication configuration with the
application's communication configuration?VesNo[F7][F8]

Step 14: Touch to select Yes [F7].

FactoryTalk View ME Station Current application:				
Bayer_FinalR4_26.mer				
Load Application [F1]	Run Application [F2]	Application Settings [F3]		
Terminal Settings [F4]	Delete Log Settings Before Running [F5]	YesNo		
Device: PVP23269 IP Addr: 169.254.118.119 Subnet: 255.255.0.0	Reset [F7]	Exit [F8]		

Step 15: Touch to select Application Settings [F3].







Step 16: Arrow down to Startup Language and touch ← to enter.





FactoryTalk View ME Station					
Current application:					
Bayer_FinalR4_26.m	ner				
	_	_			
Load Application	Run Application	Application Settings			
[F1]	[F2]	[F3]			
Terminal Settings	Celete Log Settings	Vec			
[F4]	[F5]	No			
IP Addr: 169,254,118,119	Reset	Exit			
Subnet: 255.255.0.0	[F7]	[F8]			

Step 18: Touch to select Terminal Settings [F4].

Alarms **Diagnostics Setup** Display Desktop Access Setup File Management Font Linking Input Devices File Integrity Check Networks and Communications Print Setup Startup Options System Event Log System Information Time/Date/Regional Settings

Step 19: Arrow down to Start-up Options and touch ← to enter.

Step 20: Touch to select On Start-up [F1]. Touch Run Current Application. Then touch OK [F7], then touch Close to get back to the main screen.

Step 21: Next we need to setup communication. Touch to select Terminal Settings [F4].

	-	
tion		Application Settings
		[F3]
ttings ning		Yes
		No
		Exit
		[F8]

KEPServer Serial Port ID's Network Connections RSLinx Enterprise Communications LDAP Configuration

Step 22: Arrow down to Network and Communications and touch ← to enter.

Step 23: Arrow down to Network Connections and touch ← to enter.

Step 25: Touch to select IP Address [F2].

Step 24: Arrow down to Network Adaptors and touch ← to enter.

Step 26: Touch to select Use DHCP [F4]. Touch the NO.

Step 27: Touch to select **IP Address [F1]** and enter 99.7.10.152 on the pop-up keypad. Touch to select **Subnet Mask [F2]** and enter 255.255.255.0 on the pop-up keypad. Touch to select **OK [F7]** screen will pop up about replacing communication.

Do you want to replace the terminal's current
communication configuration with the
application's communication configuration?Yes[F7]No[F8]

Step 28: Touch YES [F7] to get back to the main screen.

- 2				
	FactoryTalk View ME Station			
Current application:				
Bayer_FinalR4_26.mer				
	_			
I	Load Application	Run Applica		
I	[F1]	[F2]		
I	Terminal Settings	Delete Log Se Before Runr		
	[F4]			
1		[F5]		
l		[F5]		
l	Device: PVP23269	[F5]		
	Device: PVP23269 IP Addr: 169.254.118.119	[F5] Reset		
	Device: PVP23269 IP Addr: 169.254.118.119 Subnet: 255.255.0.0	[F5] Reset [F7]		

Step 29: Touch to select Run Application [F2].

Step 30: After the HMI program boots, enter the Year, Month, Day, Time, and type of treater you have. If you are going to use HMI storage, touch to select the **Internal** button icon (*'Insert USB to create reports and recipe folder structures'* message appears) **C**

Note: Do **NOT** touch the **DONE** button icon until Step 33, as shown on page 41!. This message displays on the System Configuration Screen automatically.

Step 31: Insert a USB with the file "autorun.bat" from the "Report Storage" folder 🥥

File Edit Help

Step 32: Once the folder structures are created and display, as shown above, touch the X at the top right hand of the screen to exit C

Step 33: Touch to select Done and the application program will start: navigates to the Main Menu Screen **O**

Login	Logout	DEAFAULT	Main Menu		Thursday, April 28, 2016 10:15:04 AM
		Message:			
			BAYER E R		
Men	iue ition		Batch CBT-200 Bowl Recipe Graphic	E	Active Alarms
			Batch Recipe Edit		Fault Reset

Step 34: Touch the CBT-200 Bowl Graphic button icon: navigates to the CBT-200 Bowl Graphic Screen **O**

Screen shows IP addresses are not communicating with each other.

other. If the graphics display as ghost images on the Bowl Graphic screen, as shown above, power down the control panel to reboot the system. Pull the control panel power lever **Down** to the **OFF** position, then back **UP** to power **ON**.

DOWN = Control panel power OFF

UP = Control panel power ON

Screen shows IP addresses are communicating with each other: graphics displayed.

Step 35: Ensure the IP addresses are communicating with each Step 36: The HMI will then display the application program Main Menu screen, as shown on page 42. Touch the CBT-200 Bowl Graphic button icon to ensure the IP addresses are communicating with each other on the Bowl Graphic screen, as shown above.

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