	Specifications	■ Installing the Driver
Direct USB to Temperature / Process Controller Configuration Cable 900-CPOEM1	 Compatible Operating Systems Compatible Software Applications Compatible models Compatible models Compatible models USB Interface rating USB Interface rating Conforms to USB Specification 1.1 DTE speed Connector specifications Power supply Power supply Power supply voltage Current consumption Ambient temperature Storage temperature Storage temperature Storage humidity Altitude Max.2,000 m Windows 2000/XP 900 BuilderLite The following Allen-Bradley Temperature Conforms to USB Specification 1.1 Conforms to USB Specification 1.1 DTE speed 38400 bps Connector specifications Personal computer: USB (type A plug) Temperature Controller: Serial DC 5V Current consumption To mA Ambient humidity RH10 to 80 % Altitude Max.2,000 m Weight 	Using Windows 2000 1) To use the 900-CPOEM1 cable you must first download the USB Driver from the 900 Temperature website located at: www.ab.com/industrialcontrols/products/relays_timers_and_temp_controllers/single_loop_temp-heater_controllers/900tc.html. 2) Go to "Get Software" (upper right of screen), click on 900-CDOEM1 Driver and follow the instruction for downloading the driver to your PC. 3) Insert the 900-CPOEM1 USB Cable into the USB port of the personal computer. The Found New Hardware Wizard will start. Click the Next Button. 4) Select Search for a suitable driver for my device (recommended) and click the Next Button. 5) When the driver file is found, click the Next Button. 6) The Completing Found New Hardware Wizard Dialog Box will be displayed. Click the Finish Button. 7) The Found New Hardware Wizard will be displayed again. Click the Next Button. Select Search for a suitable driver for my device (recommended) and click the Next Button. 8) When the driver file is found, click the Next Button. 9) When the driver file is found, click the Next Button. 9) When the driver file is found, click the Next Button. 9) When the driver file is found, click the Next Button. 9) When the driver file is found, click the Next Button. 9) When the driver file is found, click the Next Button. 9) When the driver file is found, click the Next Button. 9) When the driver file is found, click the Next Button. 9) When the drive
41063-238-01 (1) Printed In Japan Automation	System Requirements	 After installation is completed, the COM port number will be automatically assigned. For details on checking the assigned COM port number, refer to 4. Confirming Automatically
For detailed Temperature / Process Controller operating instructions, please refer to the 900-TC16 and 900-TC2 User's Manual (900-UM007A-EN-E). It can be found online at: http://www.ab.com/manuals/.	The personal computer must have the following. USB Port Access to Web Windows2000/XP	Assigned COM Port Numbers. Using Windows XP
Significance of ATTENTION Indicates information that, if not heeded, could result in injury, damage to property, or faulty operation. • Warning Symbols Indicates information that, if not heeded, could result in injury, damage to property, or faulty operation. • Warning Symbols Image to property, or faulty operation. • Warning Symbols Image to property, or faulty operation. • Warning Symbols Image to property, or faulty operation. • Warning Symbols Image to property, or faulty operation. • Warning Symbols Image to property, or faulty operation. • Warning Symbols Image to property, or faulty operation. Image to property. Image to proper	● Cable Components • Cable Hardware (2100mm) ● 250mm LED (SD) ● 250mm LED (SD) ● USB Connector Serial Connector (Type A Plug) • LED (RD) • LED Indicators Description Índicators Color Status Description Serial Connector SD Yellow OFF Data is being sent through the USB-Serial Conversion Cable. RD Yellow OFF Data is not being received. Nain unit • Instruction manual Cable Configuration to PC and Controller Use the following procedure to connect the Temperature Controller to the personal computer using the 900-CPOEM1 USB Cable. The cable is used for communications with the COM port of the personal computer.	 To use the 900-CPOEM1 cable you must first download the USB Driver from the 900 Temperature website located at: www.ab.com/industrialcontrols/products/relays_timers_and_temp_controllers/single _loop_temp-heater_controllers/900tc.html. Go to "Get Software" (upper right of screen), click on 900-CPOEM1 Driver and follow the instruction for downloading the driver to your PC. The Found New Hardware Wizard will start. Select Install the software automatically (Recommended) and click the Next Button. A message will be displayed stating that the software you are installing for this hardware has not passed Windows Logo testing to verify its compatibility with Windows XP. Click the Continue Anyway Button. The Completing Found New Hardware Wizard Dialog Box will be displayed. Click the Fin- ish Button. The Found New Hardware Wizard will start again. Select Install the software automati- cally (Recommended) and click the Next Button. A message will be displayed stating that the software you are installing for this hardware has not passed Windows Logo testing to verify its compatibility with Windows XP. Click the Continue Anyway Button. The Completing Found New Hardware Wizard Dialog Box will be displayed. Click the Fin- ish Button to complete installation. The Completing Found New Hardware Wizard Dialog Box will be displayed. Click the Fin- ish Button to complete installation. After installation is completed, the COM port number will be automatically assigned COM Port Numbers. Note1 : This product is compatible with Windows XP and Allen-Bradley's operation inspec- tion has verified normal operation. If driver installation is cancelled before it has been completed, the driver will not be completely installed, which will result in ab- normal communications. If this occurs, uninstall the driver and then reinstall the driv- er correctly. Note2 : Allen-Bradley recommends installing the d
 age. 2) Do not place objects on top of the cable, pull on the cable, or bend the cable beyond their natural bending limit. 3) Do not connect or disconnect the cable during communications. Doing so will cause malfunction or failure. 4) Allow as much space as possible between the controller and devices that generate powerful high-frequency electrical noise or surge. 5) Use this product within the rated load and power supply. 6) Make sure that the device's metal components are not touching the external power terminals. 7) Do not touch the connectors with wet hands. Electric shock may occur. Precautions for Correct Use 1) Do not use this product in the following places. Places directly subject to heat radiated from electrical or heat generating equipment. Places subject to splashing liquid or oil atmosphere. Places subject to direct sunlight. Places subject to icing and condensation. Places subject to icing and condensation. Places subject to icing and condensation. Places subject or disconnect the USB connectors repeatedly over a short period of time. The personal computer may malfunction. 4) After you download the driver from the A-B website (refer to Installing the Driver) and insert the USB connector into the personal computer, check the COM port number before starting communications. The personal computer, check the COM port number before starting communications. The personal computer requires time to recognize the cable devine and will be also and public. 5) Do not connect or into the personal computer, check the COM port number before starting communications. The personal computer, check the COM port number before starting communications. The personal computer requires time to recognize the cable connection. This delay does not indicate failure. 5) Do not connect the USB cable through a USB hub. Doing so may damage the cable. 6) Do not use a extensio	To perform communications using the 900-CPOEM1, set the communications port (COM port) number used by the software to the communications port (COM port) number that has been assigned to the 900-CPOEM1 USB Cable. 1. First, turn ON the power to the Temperature Controller and DC. Note: If power is not turned on to the PC and Temperature Controller first before connecting the cable, damage may result to the Temperature Controller communication port. 2. Connect the USB Cable Connect one end of the cable to the personal computer's USB port and the other end to the Setting Tool port on the Temperature Controller. Personal computer USB port 900-CPOEM1 port Personal computer USB port 900-CPOEM1 port Personal computer Descent Note: Hold the connector ends securely when connecting or disconnecting the cable. 3. Install the Driver but on the opposite side Install the driver to enable using the 900-CPOEM1 USB Cable with the personal computer. Refer to using Windows 2000 and using Windows XP, next column to right. 4. Installeton After the driver is installed, when the cable is connected to the personal computer,	Confirming Automatically Assigned COM Port Numbers Using Windows 2000 1) Select My Computer - Control Panel and then double-click the System Icon to display the System Properties Window. Click the Hardware Tab and then click the Device Manager Button. Select Devices by Type from the View Menu. For example, if Allen-Bradley 900-CPOEM1 USB Serial Port (COM4) is dis- played under the Ports (COM & LPT) heading in the directory tree, the device is assigned to COM port 4. Image: Ports (COM & LPT) Perts (COM & LPT) Image: Ports (COM & LPT) Perts (COM & LPT) Image: Ports (COM & LPT) Perts (COM & LPT) Image: Ports (COM & LPT) Perts (COM & LPT) Image: Ports (COM & LPT) Perts (COM & LPT) Image: Ports (COM & LPT) Perts (COM & LPT) Image: Ports (COM & LPT) Perts (COM & LPT) Image: Ports (COM & LPT) Perts (COM & LPT) Image: Ports (COM & LPT) Perts Port (LPT1) Image: Ports (COM & LPT) Perts Port (LPT1) Image: Ports (COM & LPT) Perts Port (COM1) Image: Ports (COM & LPT) Perts Port (COM1) Image: Ports (COM & LPT) Perts Port (COM2) Image: Ports (COM & LPT) Perts Port (COM2) Image: Ports (COM & LPT) Perts Port (COM2) Image: Ports (COM & LPT)

Note: In the software communications settings, select the COM port number that was confirmed in the device manager and then start communications.

Uninstalling the Driver -

Using Windows 2000

- 1) Select Start Control Panel and double-click the Add/Remove Programs Icon. 2) The Add/Remove Programs Window will be displayed.
- Select Allen-Bradley 900-CPOEM1 Drivers and click the Change/Remove Button. 3) Click the **Continue** Button to start uninstallation.
- 4) Click the **Finish** Button to complete uninstallation.

Using Windows XP

- 1) Select Start Control Panel and double-click the Add or Remove Programs Icon. 2) The Add or Remove Programs Window will be displayed.
- Select Allen-Bradley 900-CPOEM1 Drivers and click the Change/Remove Button. 3) Click the **Continue** Button to start uninstallation.
- 4) Click the **Finish** Button to complete uninstallation.

Table A		
900-TC8 Controllers	900-TC16 Controllers	
900-TC8RGTH1Z25	900-TC16RGTZ25	
900-TC8RGTZ25	900-TC16YGTZ25	
900-TC8RVGTZ25	900-TC16VGTZ25	
900-TC8RGTH3Z25	900-TC16ACGTZ25	
900-TC8VGTH1Z25	900-TC16RGTU25	
900-TC8VGTZ25	900-TC16VGTU25	
900-TC8VYGTZ25	900-TC16ACGTU25	
900-TC8VVGTZ25	900-TC16RABZ25	
900-TC8VGTH3Z25	900-TC16YABZ25	
900-TC8ACGTZ25	900-TC16VABZ25	
900-TC8ACYGTZ25	900-TC16ACABZ25	
900-TC8ACVGTZ25	900-TC16RABU25	
900-TC8RGTH1U25	900-TC16VABU25	
900-TC8RGTU25	900-TC16ACABU25	
900-TC8VGTH1U25		
900-TC8VGTU25		
900-TC8ACGTU25		
900-TC8RABH1Z25		
900-TC8RABZ25		
900-TC8VABH1Z25		
900-TC8VABZ25		
900-TC8VYABZ25		
900-TC8ACABZ25		