SIEMENS ST801

SIEMENS SIMATIC HMI TP700 Comfort Panel (6AV2124-0GC01-0AX0) Instruction Manual

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the SIEMENS SIMATIC HMI TP700 Comfort Panel. The TP700 Comfort Panel is a human-machine interface designed for industrial automation applications, featuring a 7-inch widescreen TFT display with touch operation capabilities.
The device offers a PROFINET interface, an MPI/PROFIBUS DP interface, and 12 MB of configuration memory. It operates on Windows CE 6.0 and is configurable using WinCC Comfort V11 or higher.

Image: Front view of the SIEMENS SIMATIC HMI TP700 Comfort Panel, showcasing its 7-inch widescreen display.

SETUP

1. Unpacking and Inspection

Carefully unpack the SIMATIC HMI TP700 Comfort Panel. Inspect the device for any signs of damage during transit. Ensure all components listed in the packing slip are present. The package typically includes the device only.

2. Physical Installation

The panel is designed for panel mounting. Consider the product dimensions of approximately 12.2 x 9.06 x 9.06 inches and a weight of 4.14 pounds for proper enclosure selection and mounting. The device features IP65 protection with stainless steel panels, making it suitable for various industrial environments. Touch versions can be installed in an upright orientation.

3. Electrical Connections

Connect the power supply to the device. The required operating voltage is 19.2 Volts. Ensure the power source meets the specified voltage and current requirements to prevent damage to the unit.

4. Interface Connections

Connect the HMI to your industrial network using the PROFINET interface. For other communication needs, utilize the MPI/PROFIBUS DP interface. Refer to the network topology and cabling guidelines for your specific system.

5. Configuration

The SIMATIC HMI TP700 Comfort Panel is configurable from WinCC Comfort V11 or higher. Install the appropriate software on your engineering station and follow the software's instructions to create and download your HMI project to the panel.

OPERATING

1. Power On

Once properly installed and connected, apply power to the HMI. The device will boot up, displaying the Windows CE 6.0 operating system and then loading the configured HMI project.

2. Touch Operation

The TP700 Comfort Panel features capacitive multitouch displays, allowing for intuitive operation through touch gestures. Interact with on-screen elements such as buttons, input fields, and navigation controls by touching the display.

3. Display Features

The 7-inch widescreen TFT display supports 16 million colors, providing clear and vibrant visualization of process data and control elements. The widescreen format offers a larger visualization area, enhancing operational overview.

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Video: An overview of the Siemens 6AV2124-0GC01-0AX0 SIMATIC HMI TP700 Comfort Panel, demonstrating its display capabilities and installation flexibility.

MAINTENANCE

1. Cleaning the Display

To maintain optimal touch functionality and display clarity, regularly clean the screen. Use a soft, lint-free cloth dampened with a mild, non-abrasive cleaning solution specifically designed for electronic displays. Avoid excessive moisture and harsh chemicals.

2. Environmental Considerations

The device is designed with IP65 protection, indicating resistance to dust ingress and low-pressure water jets. However, ensure that the operating environment remains within the specified temperature and humidity ranges to prolong the lifespan of the HMI.

3. Software Updates

Periodically check for software updates for WinCC Comfort and the HMI firmware from the official SIEMENS support channels. Keeping the software up-to-date ensures optimal performance, security, and access to new features.

TROUBLESHOOTING

1. No Power

- Verify that the power cable is securely connected to both the HMI and the power source.
- Check the power supply for proper voltage output (19.2 Volts).
- Inspect fuses or circuit breakers in the power circuit.

2. Display Issues

- If the screen is blank, ensure the HMI is powered on and the backlight is functioning.
- If the display is distorted or flickering, check for electromagnetic interference or faulty connections.

3. Touchscreen Unresponsive

- Clean the display surface to remove any dirt or debris that might interfere with touch detection.
- Restart the HMI.
- If the issue persists, recalibration or a firmware update might be necessary. Consult the WinCC Comfort documentation.

4. Communication Errors

- Verify network cable connections for PROFINET or MPI/PROFIBUS DP.
- Check network settings and IP addresses in the HMI configuration and the connected PLC.
- Ensure the HMI project is correctly downloaded and running.

For complex issues not resolved by these steps, refer to the detailed documentation provided with WinCC Comfort or contact SIEMENS technical support.

SPECIFICATIONS

Feature	Detail
Manufacturer	Siemens
Part Number	6AV2124-0GC01-0AX0
Model Name	ST801
Item Weight	4.14 pounds
Product Dimensions	12.2 x 9.06 x 9.06 inches
Voltage	19.2 Volts
Display Style	LCD Touch Panel
Screen Size	7 Inches (Widescreen TFT)

Feature	Detail
Colors	16 million colors
Special Features	Capacitive multitouch displays, IP65 protection with stainless steel panels
Usage	Industrial Automation
Operating System	Windows CE 6.0
RAM Memory Installed Size	12 MB (Configuration Memory)
Interfaces	PROFINET, MPI/PROFIBUS DP
Configurable From	WinCC Comfort V11
Included Components	Device only

WARRANTY

Specific warranty terms and conditions for the SIEMENS SIMATIC HMI TP700 Comfort Panel are provided by SIEMENS or the authorized seller at the time of purchase. Please refer to your purchase documentation or contact your supplier for detailed warranty information, including coverage period and claims procedures.

SUPPORT

For technical assistance, product inquiries, or service requests related to your SIEMENS SIMATIC HMI TP700 Comfort Panel, please contact SIEMENS customer support directly. You can find contact information and additional resources on the official SIEMENS website. Ensure you have your product model (ST801) and part number (6AV2124-0GC01-0AX0) available when seeking support.
Official SIEMENS Website: www.siemens.com